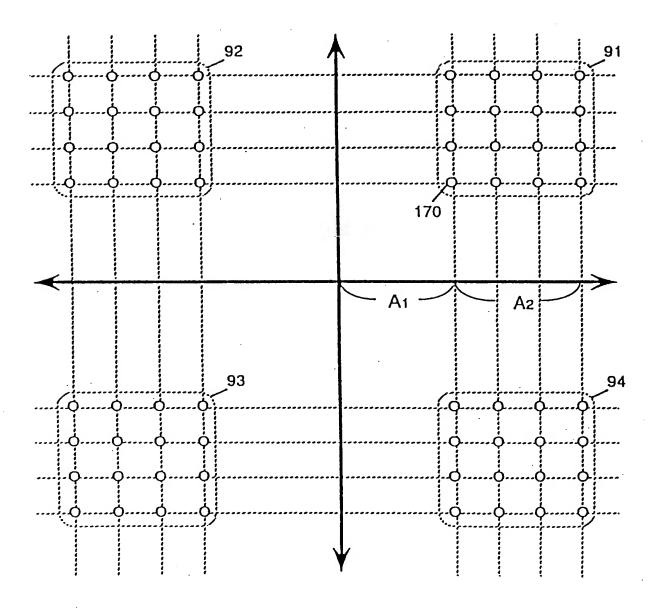
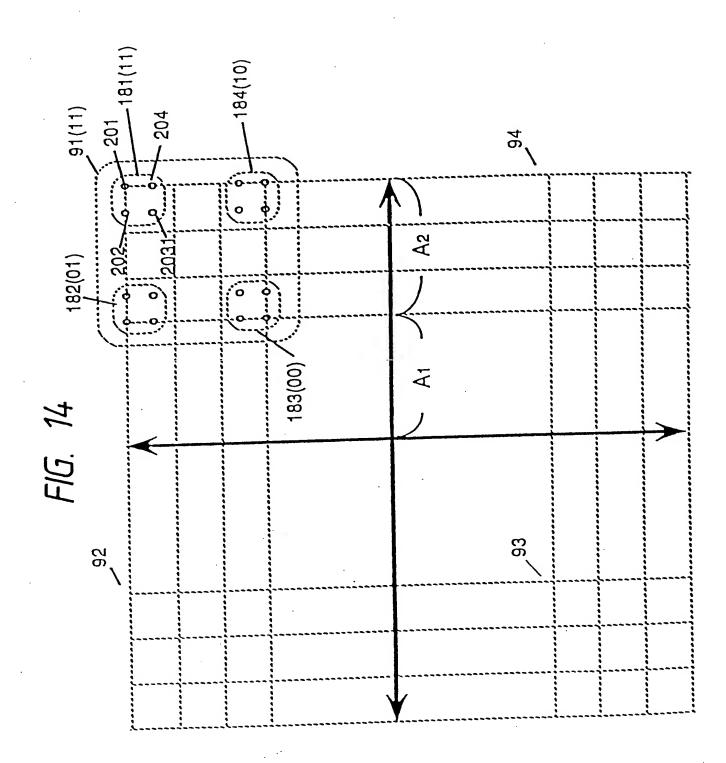
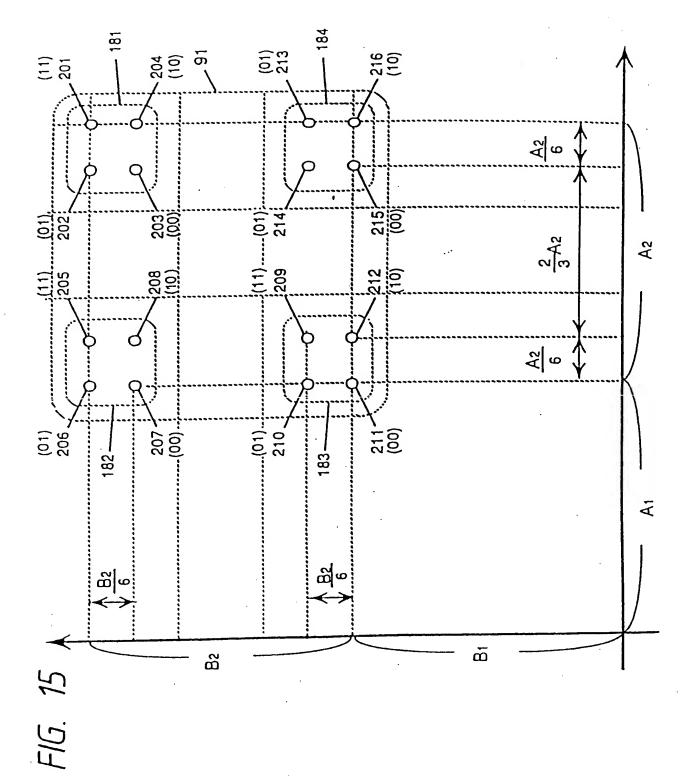
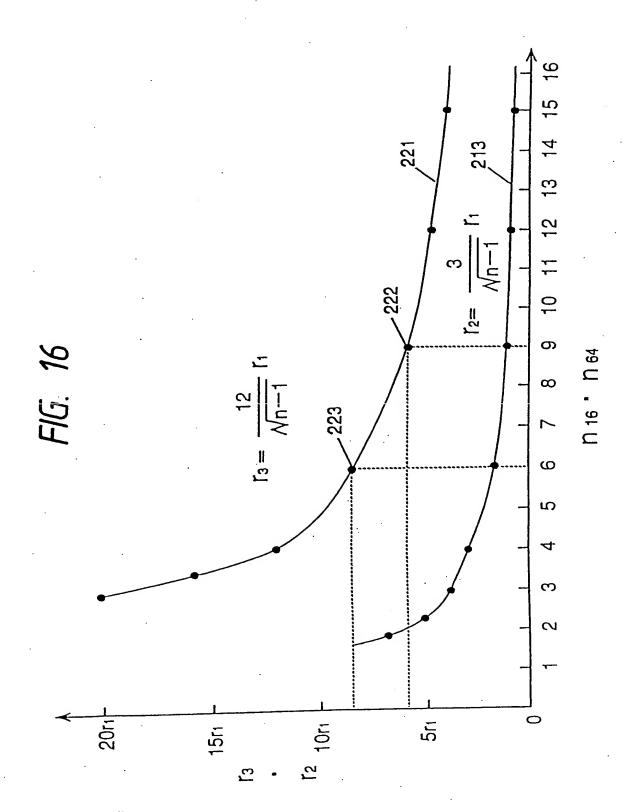


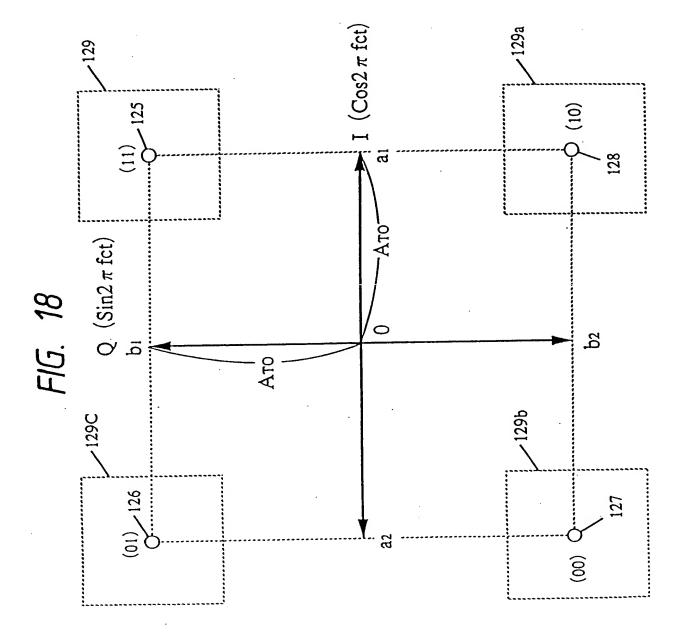
FIG. 12

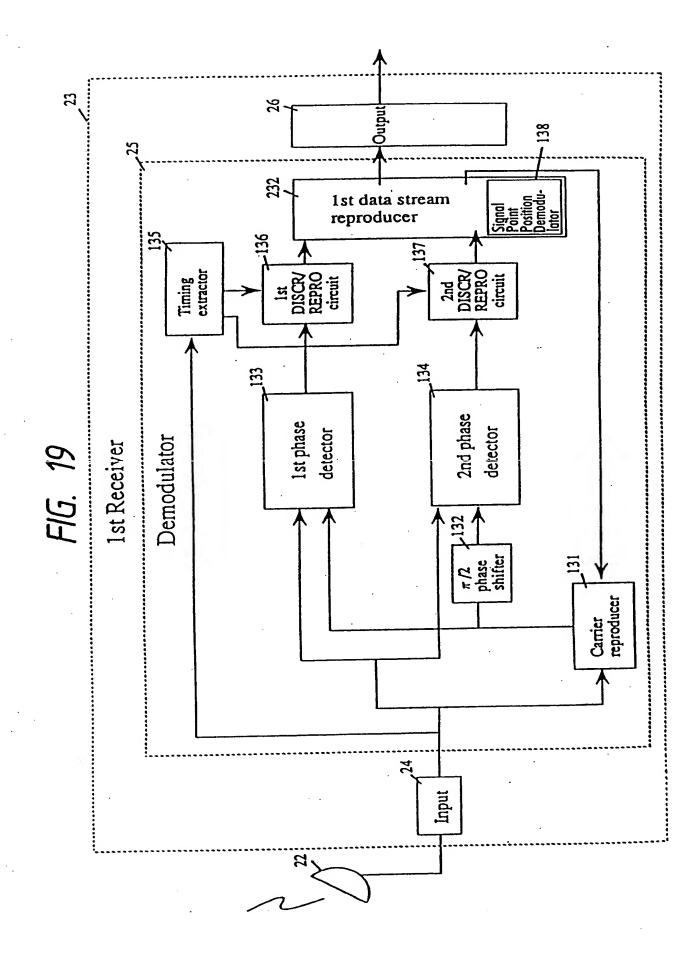


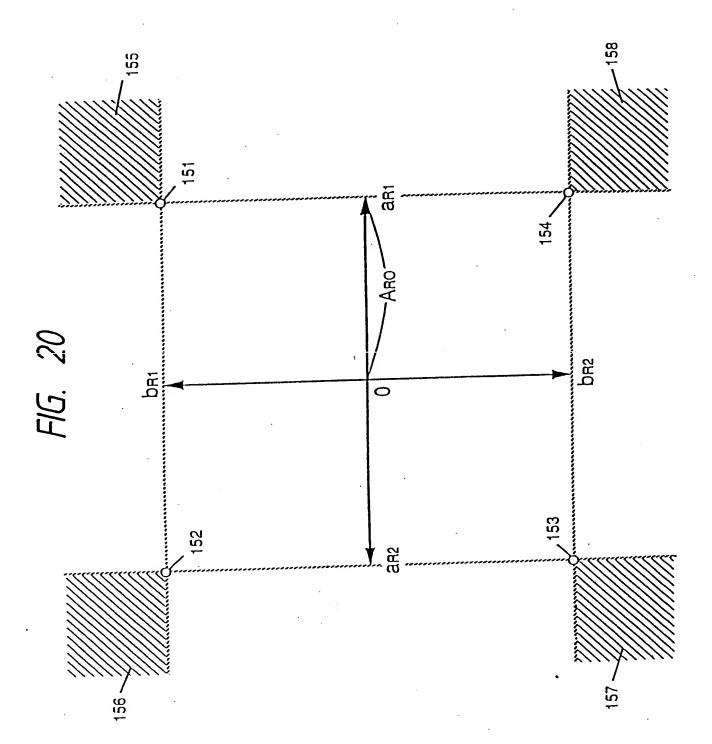


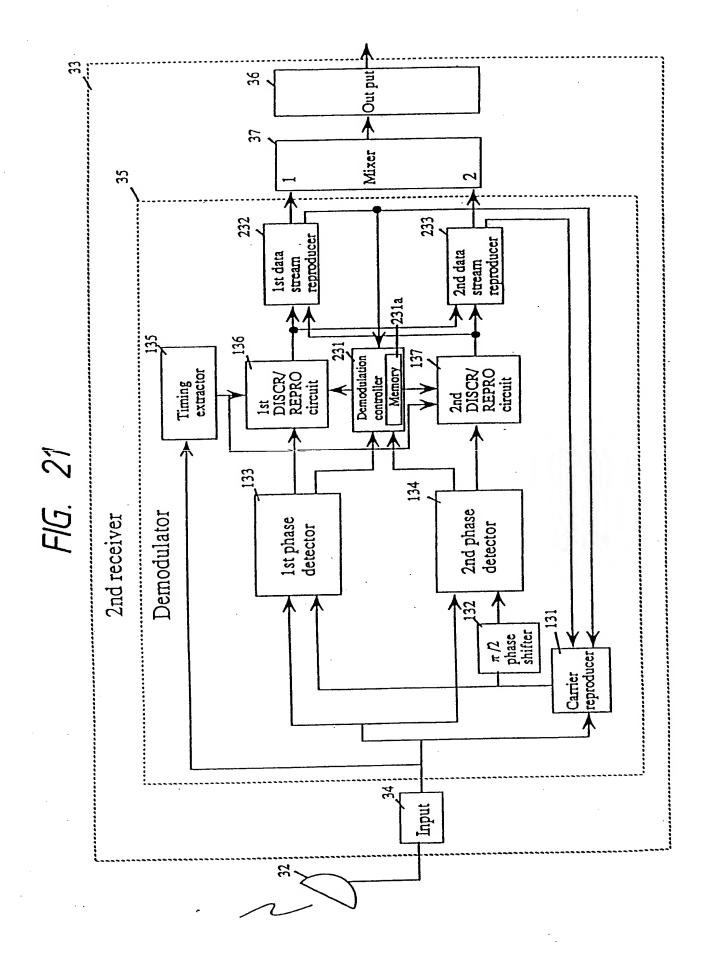


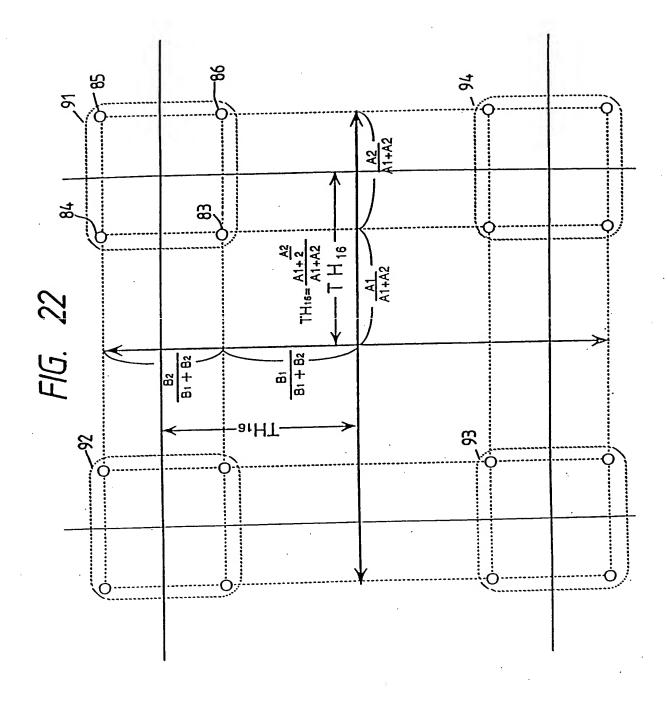


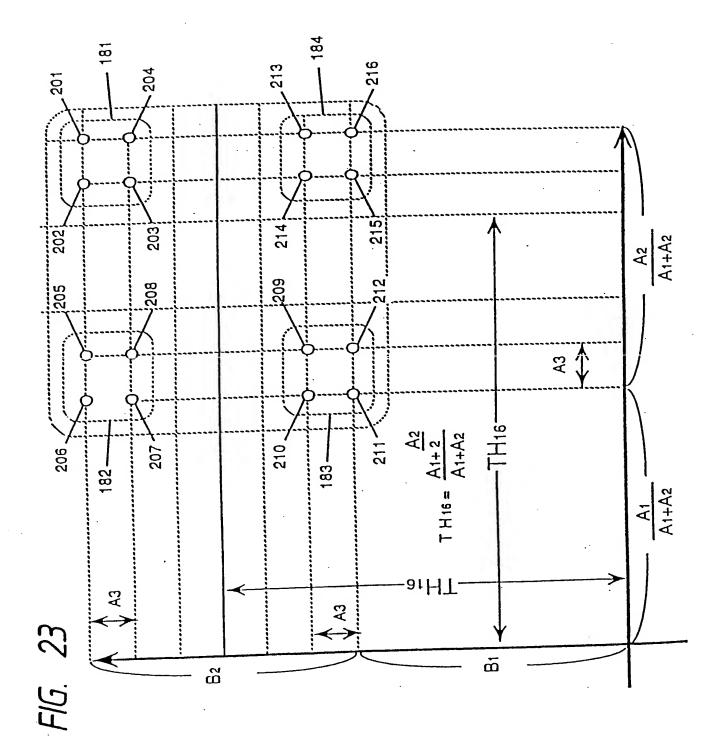


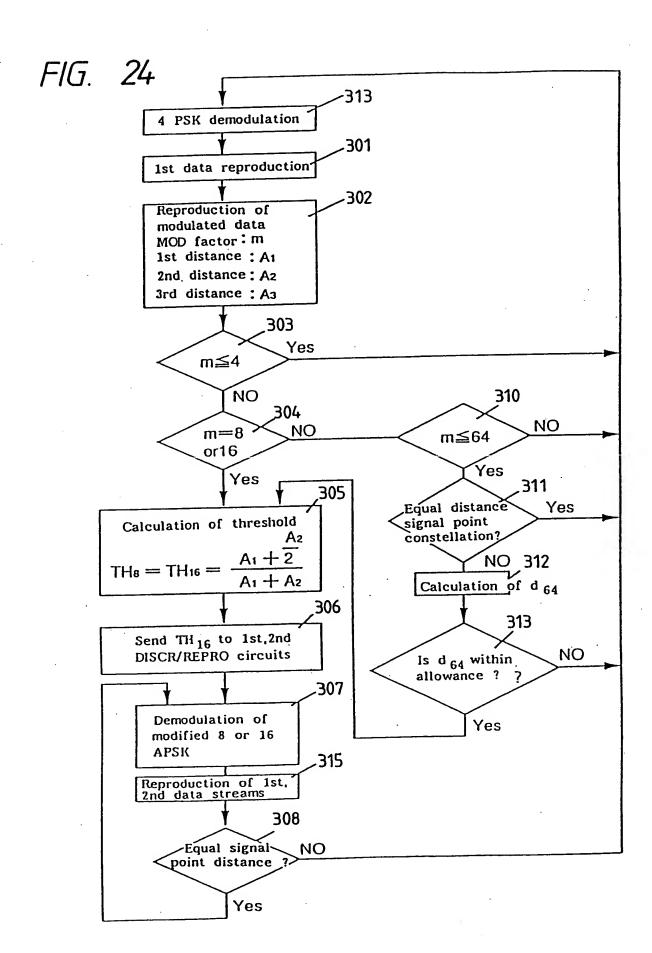












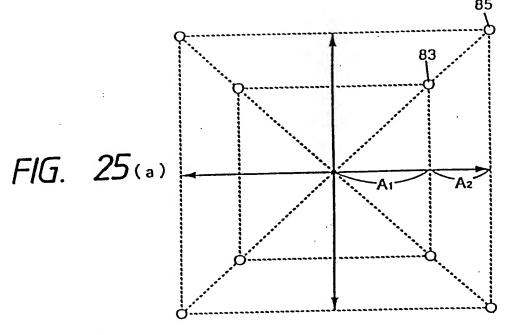
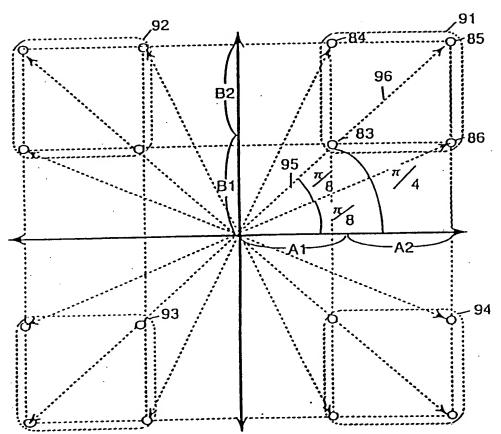


FIG. 25(b)



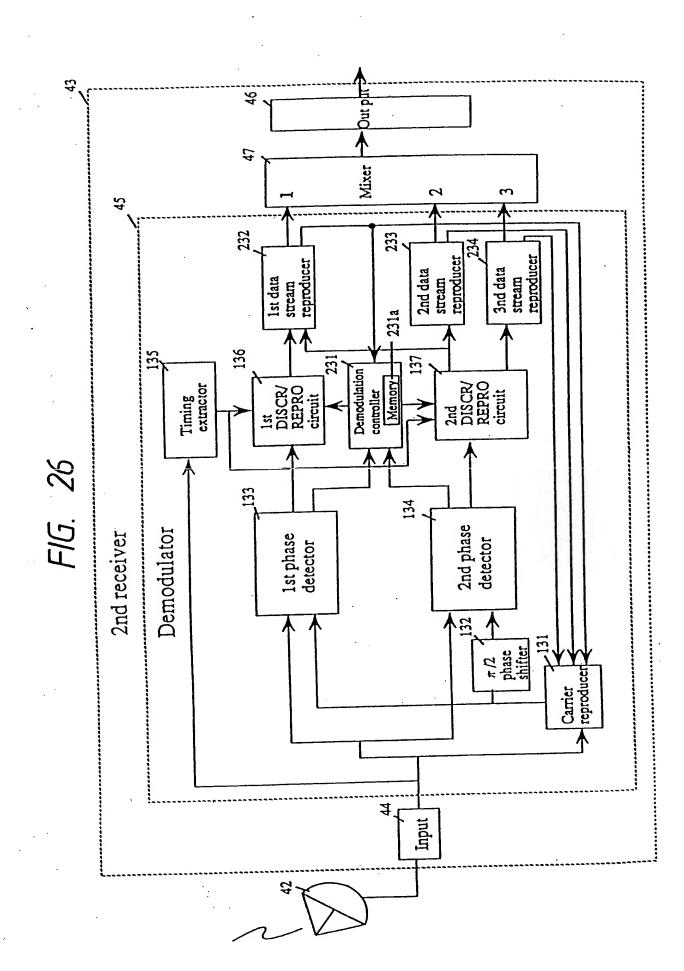
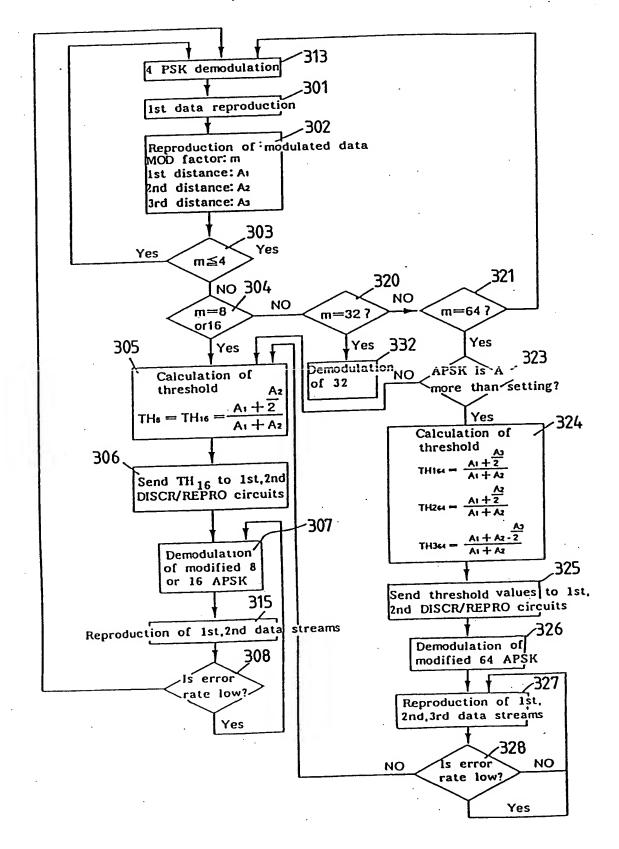
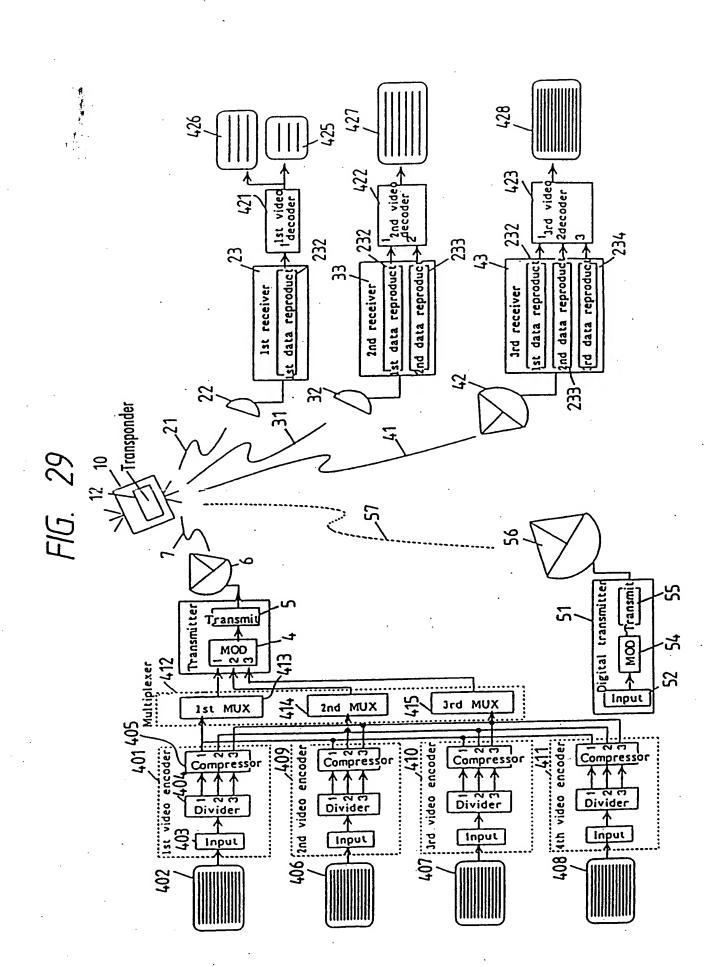


FIG. 28





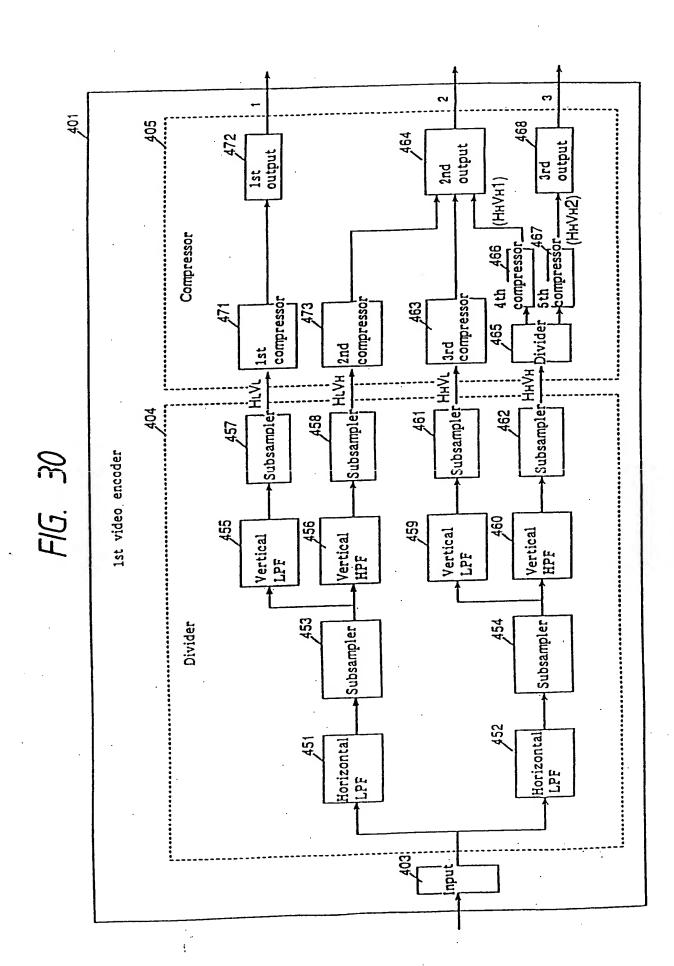
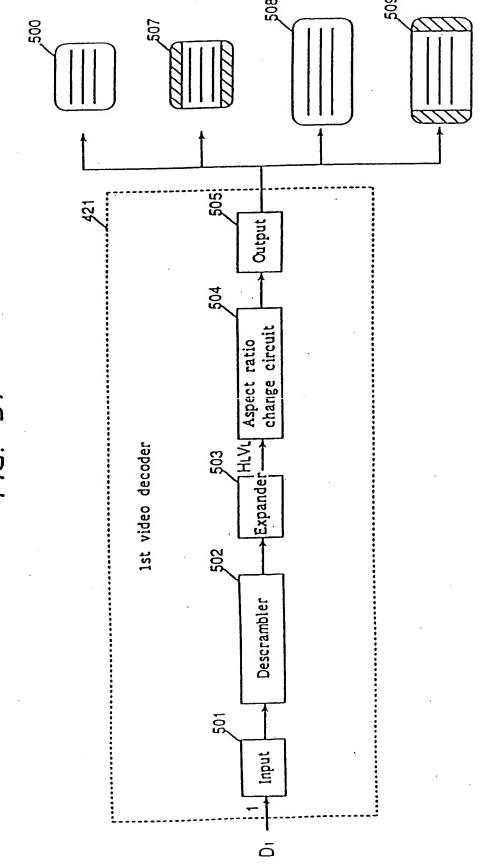


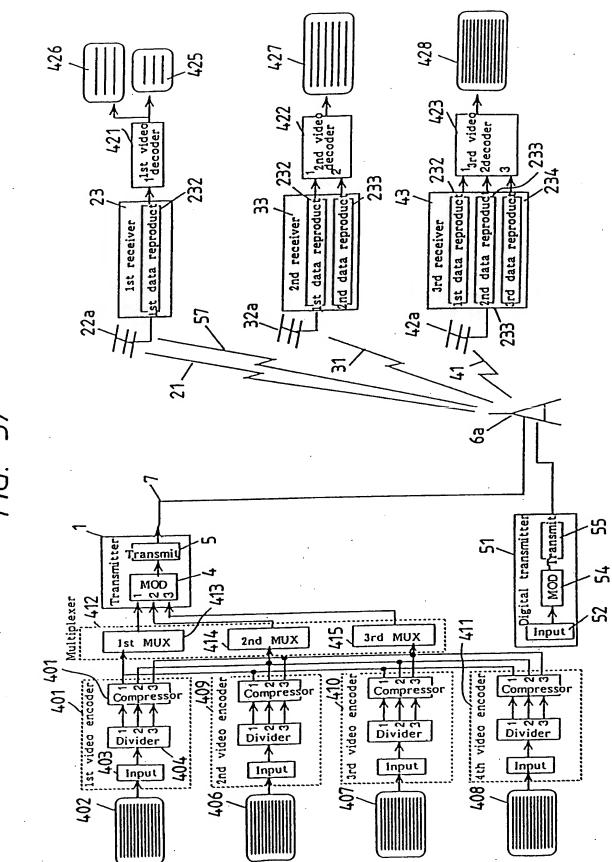
FIG. 31

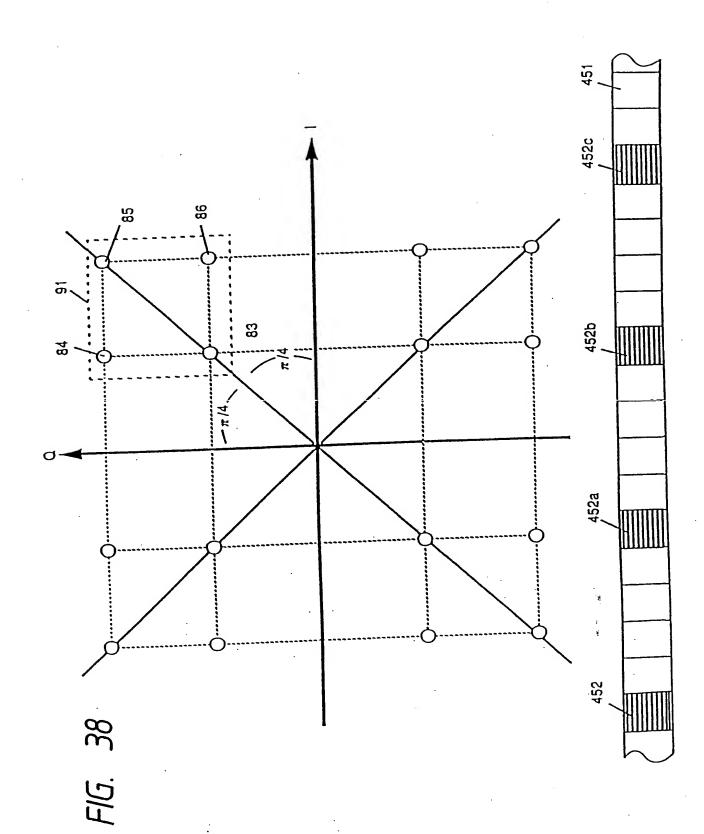


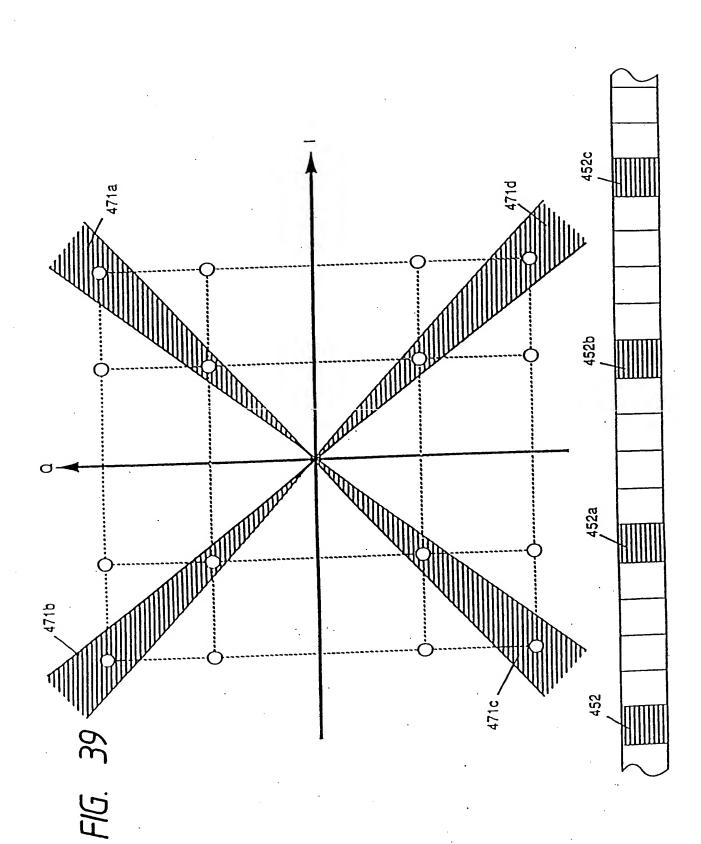
422 H Output 546 527 542 54 Hori Hori HPF 541 Oversampler HHVI, 526 F 525 HitVH 第(土) H.Y. 524 Ver.HPF 2nd video decoder Ver.LPF Ver.LPF Ver.HPF 523 53 535 3rd 533 expander Oversampler expander Oversampler → Oversampler Oversampler 2nd 532 expander 522 1st expander 4th 1 Divider ... 왕 D₂ 2 2nd input Di 11 1st input

<u>8</u> , 233 오 **HHVF2** 551 , 55 , 24, 25, Hori HPF Hori LPF Oversampl 쟢, 품 포 \pm 포 H/L 3rd video decoder Super-high band video decoder 538 Ver.LPF Ver.HPF Ver.LPF Ver.HPF 537, 535 Oversampler Oversampler Oversampler - Oversampler 523 2nd 532 534 expander 1st expander expander ## ## 374 531 Divider 8 22 D3 3rd input D2 12 2nd input Di 14 1st input

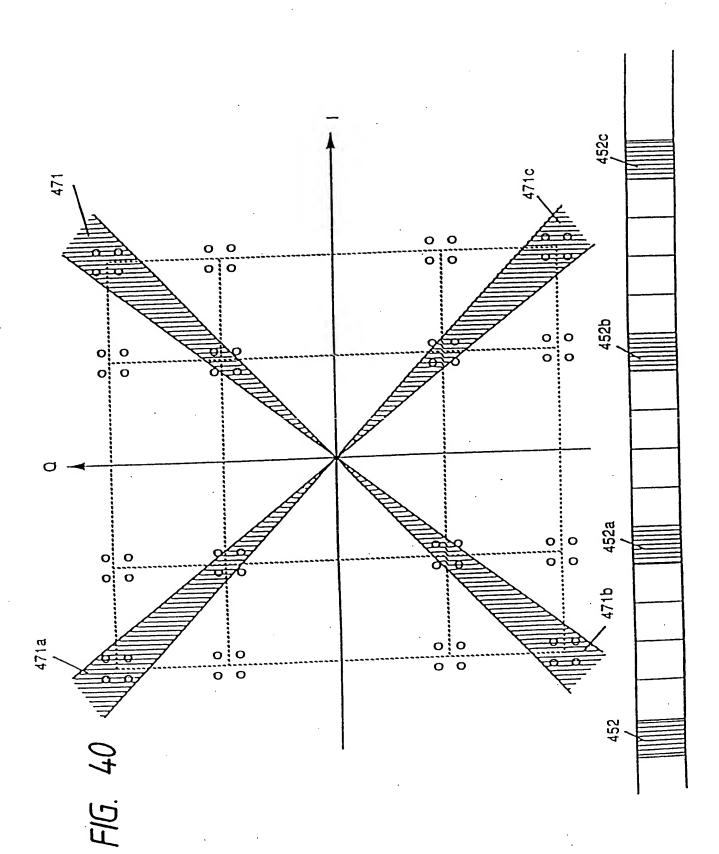
1





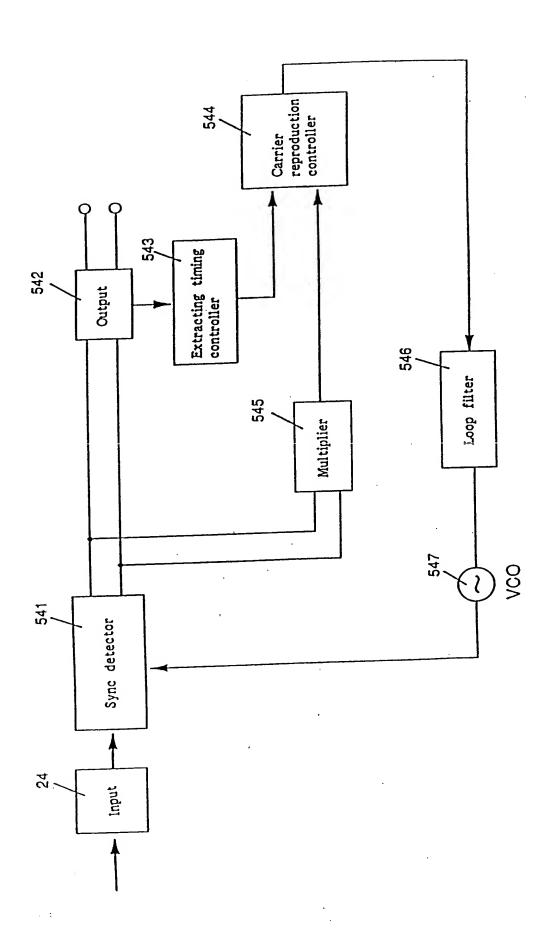


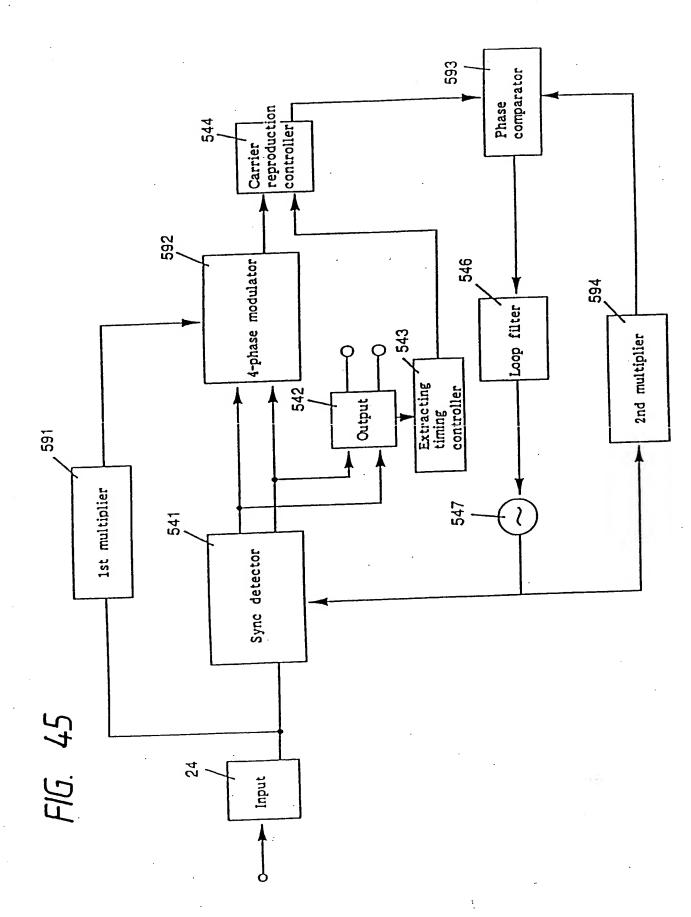
M

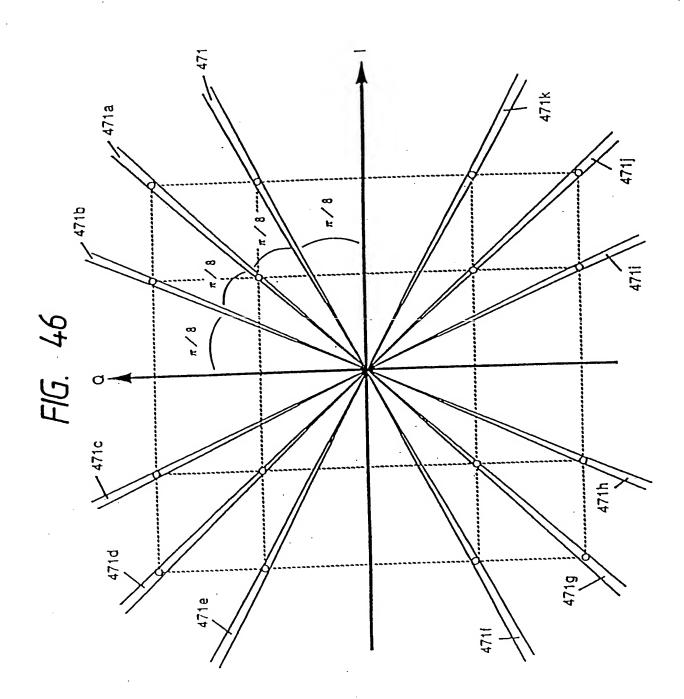


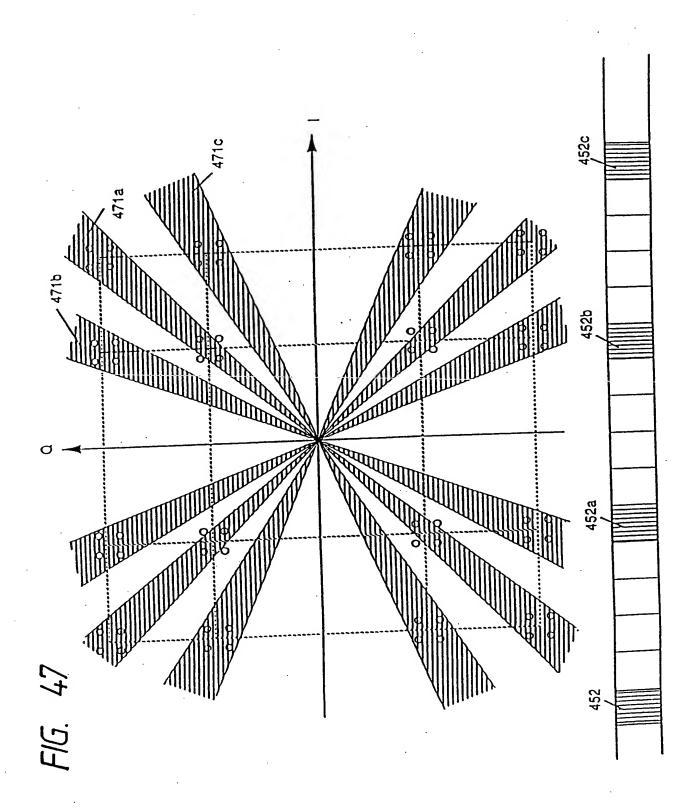
452j 522b 491b 0,4% 452g 521b <u>တ</u> 522a 491a On+1 ţ 452d 452e 452f **521a** <u>က</u> 491 FIG. 42 ក្ ద్ ద్ 522 Frame S 521 S | D1 | D2 | D3 | D4 | S | 10 | D1 | D2 | D3 505 <u>. o</u> S₁ S₂ S₃ S1 S2 S2 452 452a 452b

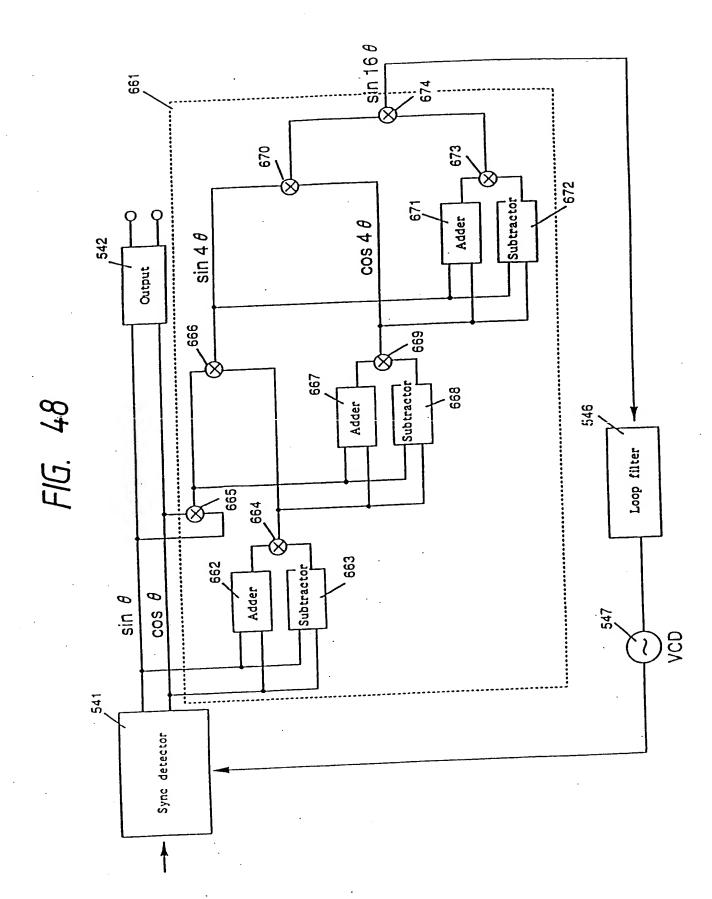
FIG. 43











			†	Ť	T	<u>_</u>	<u></u>			<u></u>
	750e 6	e ,721e	9 -	Me		S H6-1	s H6-2	}	S H6-3	S H6-4
	750d 5 /	741e	L5	M5		H5-1	H5-2		H5-3	H5-4
	750c	7410	<u></u>	<u> </u>		<u>0</u>	H4-2	[[H4-3	H4-4
	75	7410	S L4	S M4		S H4-1	S H4		S	S
⊢	750b	741b 731b	S L3	EM S	-	S H3-1	S H3-2		S H3-3	S H3-4
	750a	11a 721a	L2	M2		H2-1	H2-2		s H2-3	s H2-4
	750	721 741	· σ	M1 S		H1-1	H1-2		H1-3	H1-4
		720 741 731	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	S		S	S		S	S
 	Y -	722	~ ^	H O		D v2	ا کا ص		ت دگ	F O

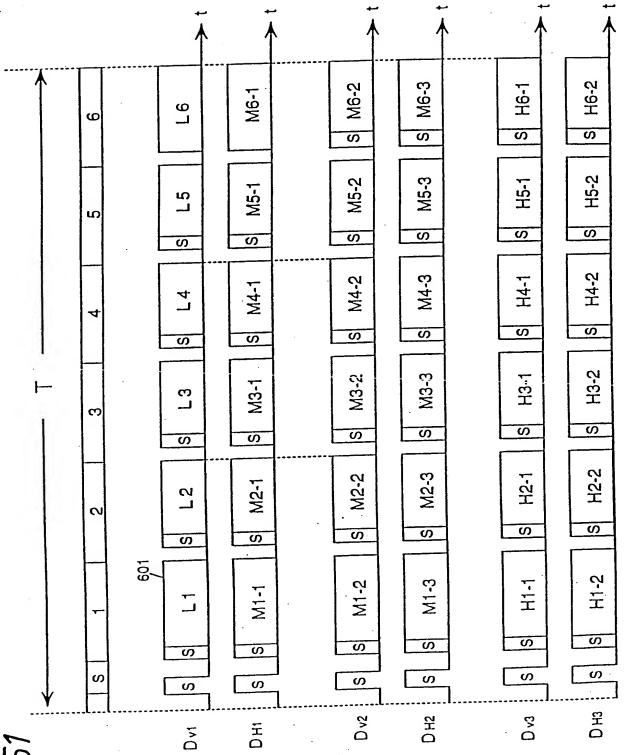


FIG. 52

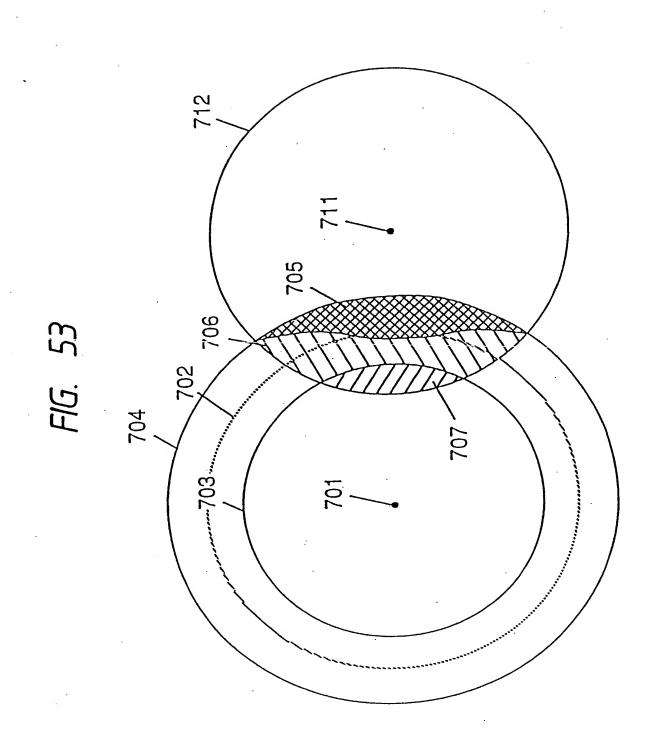
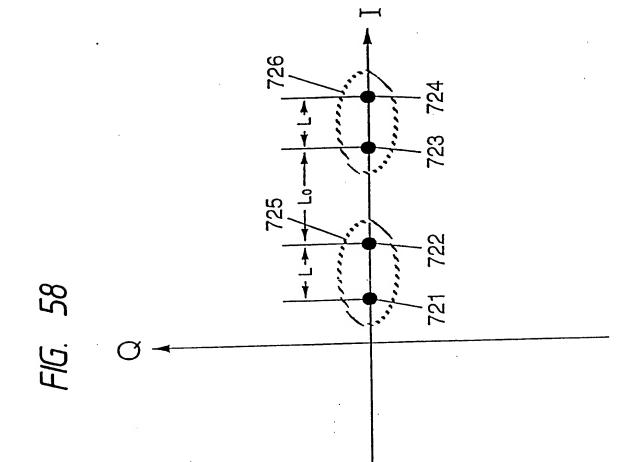
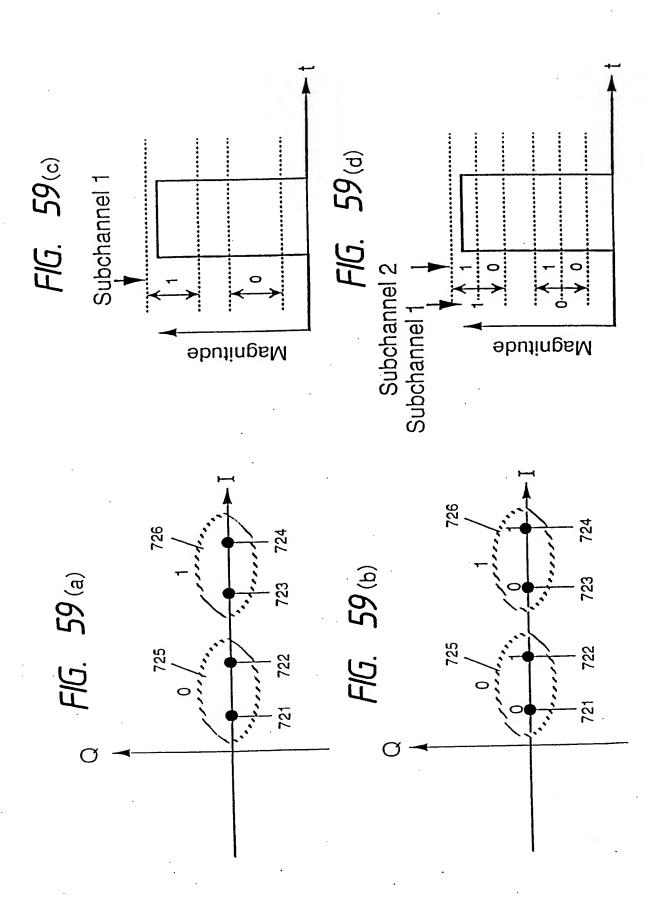
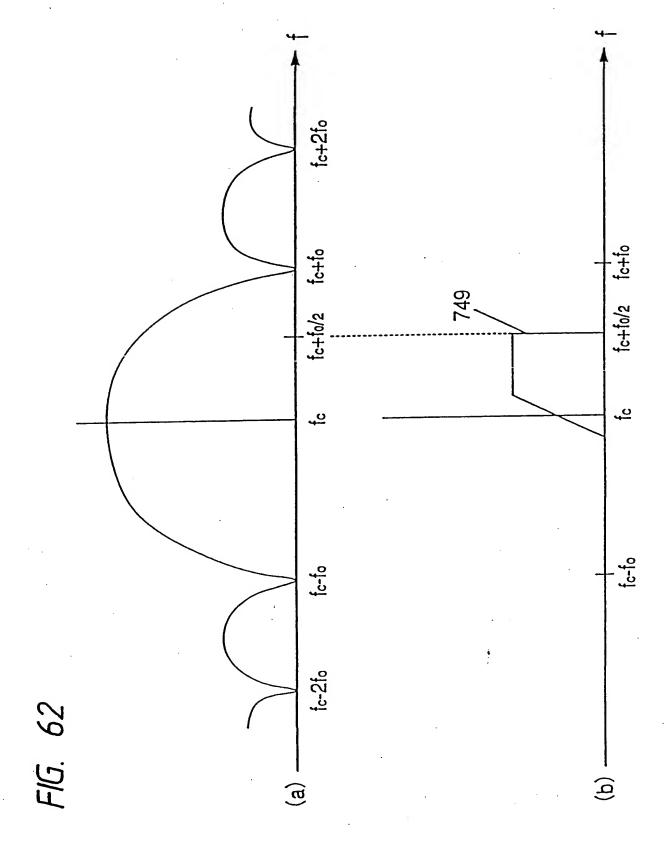


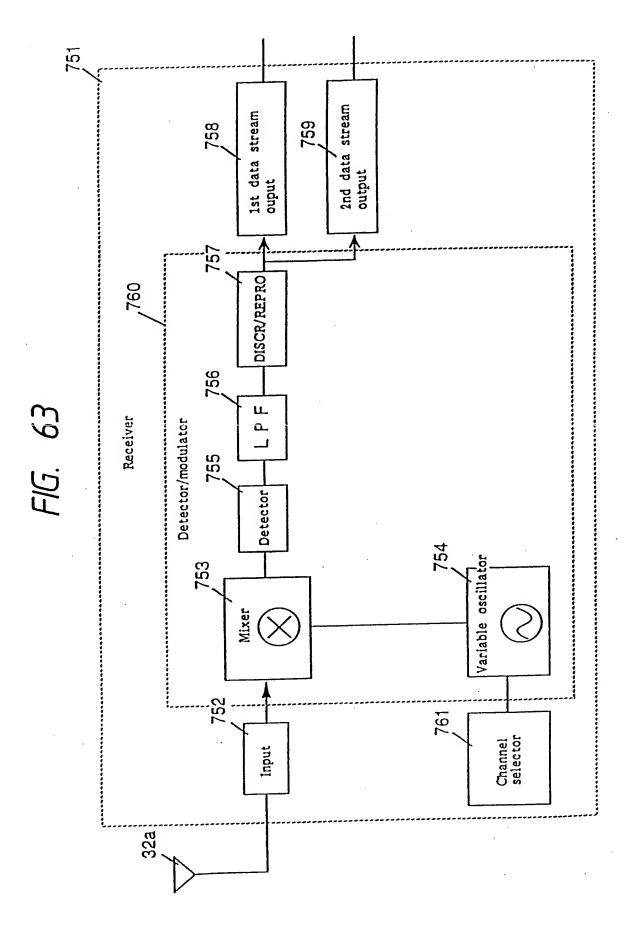
FIG. 54

FIG. 55









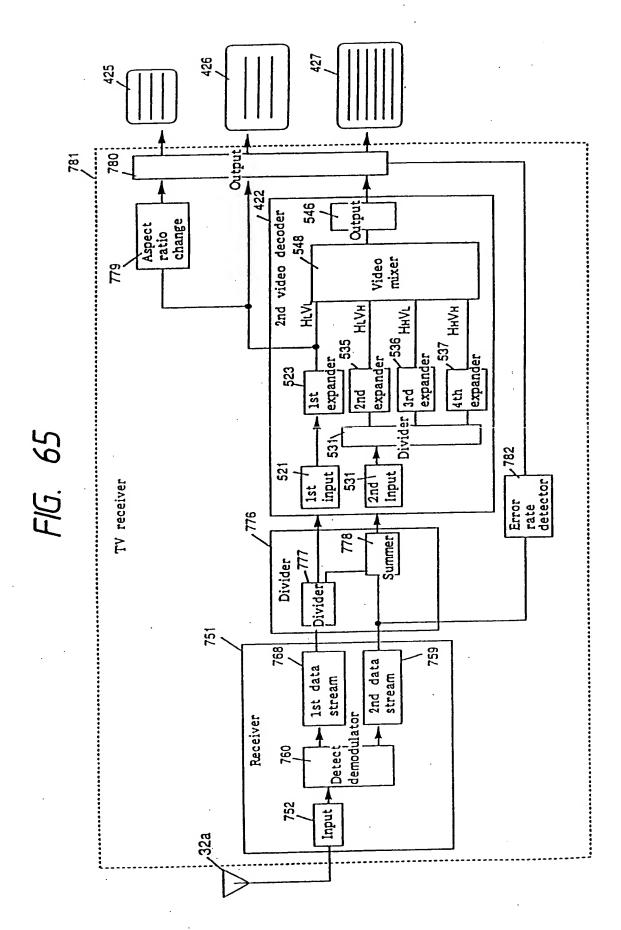
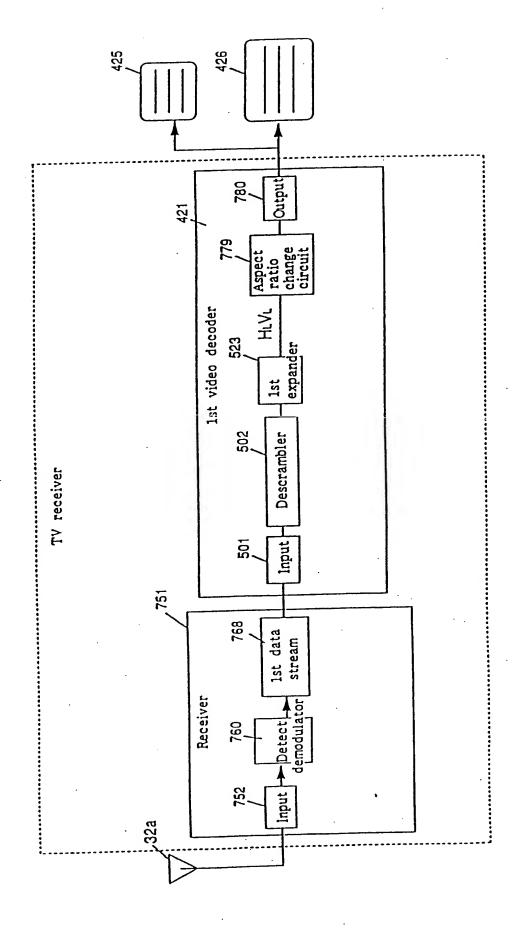


FIG. 66



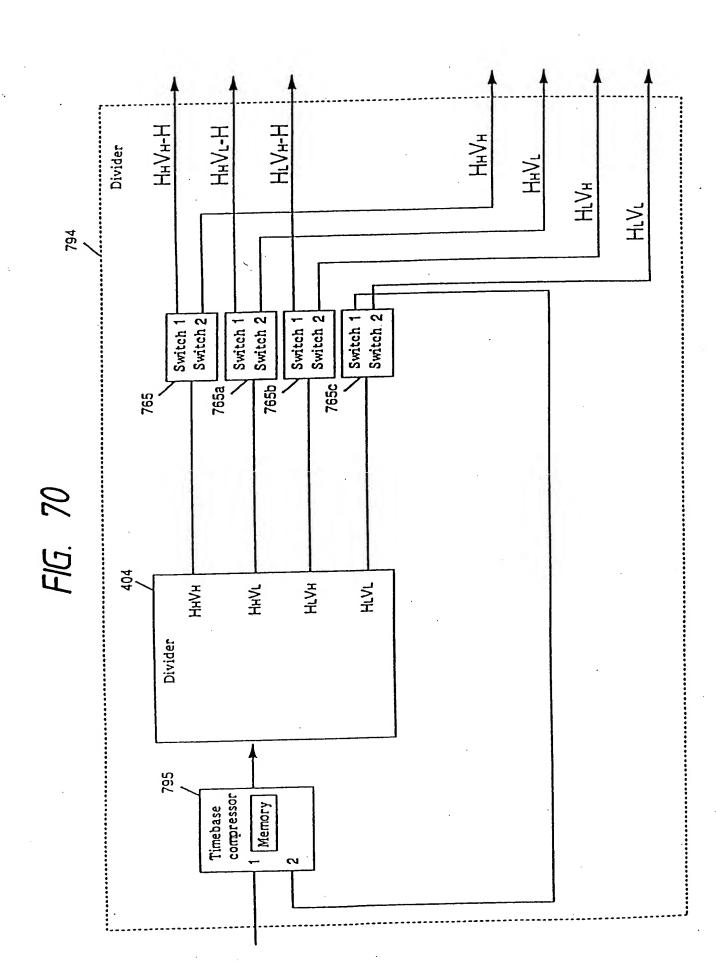


FIG. 72

FIG. 73

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		HLVH HHVL HHVH	Timing		
		Н.Vн			فسنهد
		D1 HLVL		,	-=
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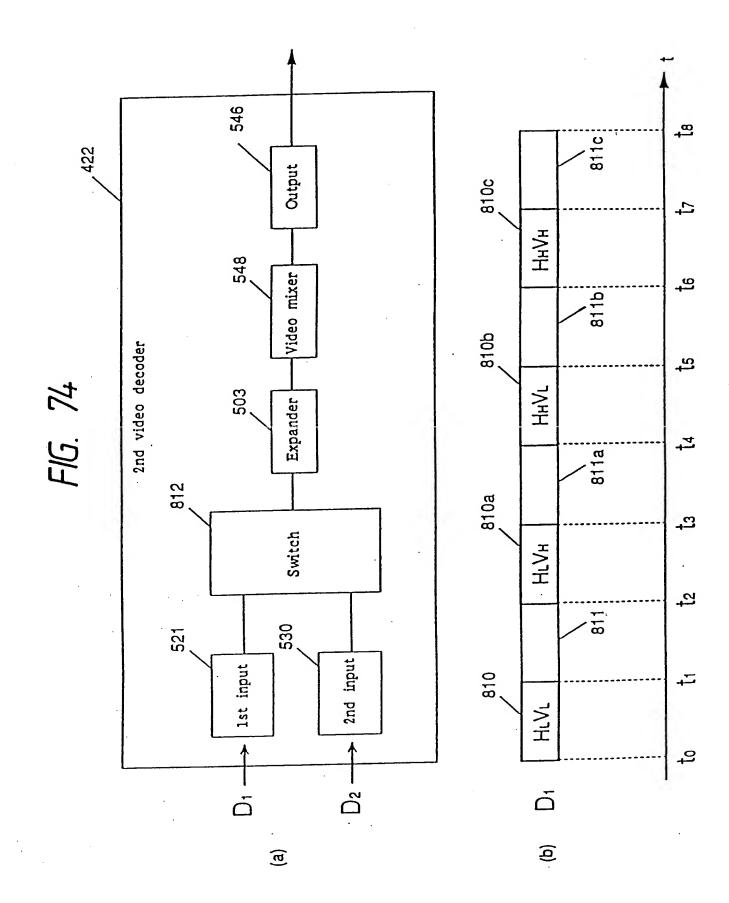


FIG. 75

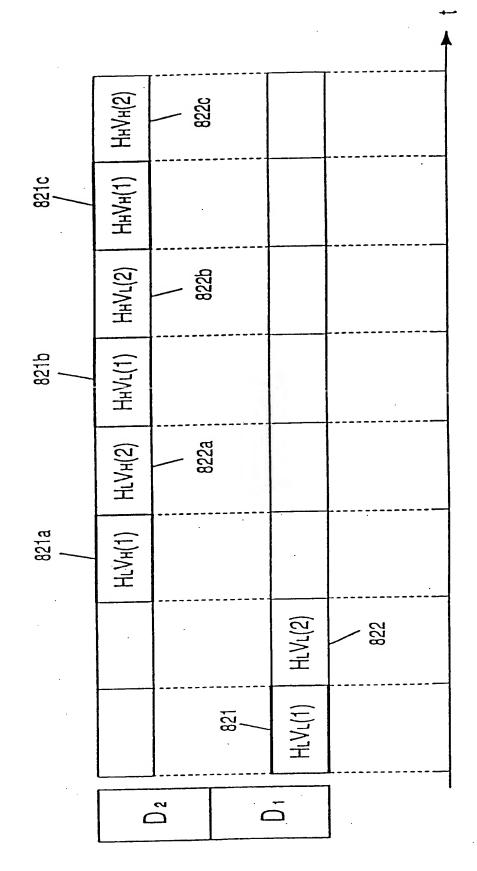


FIG. 76

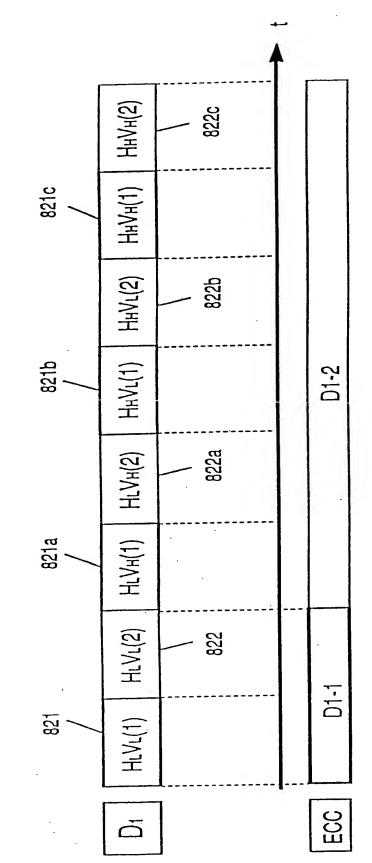
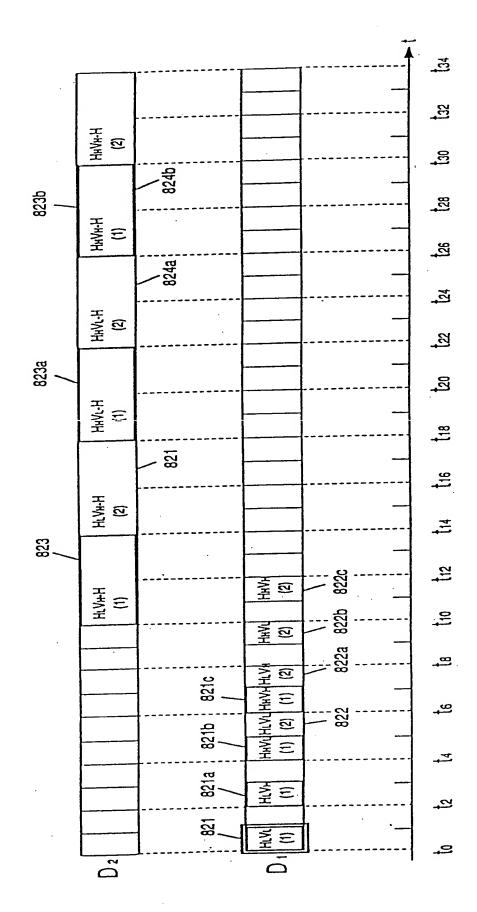
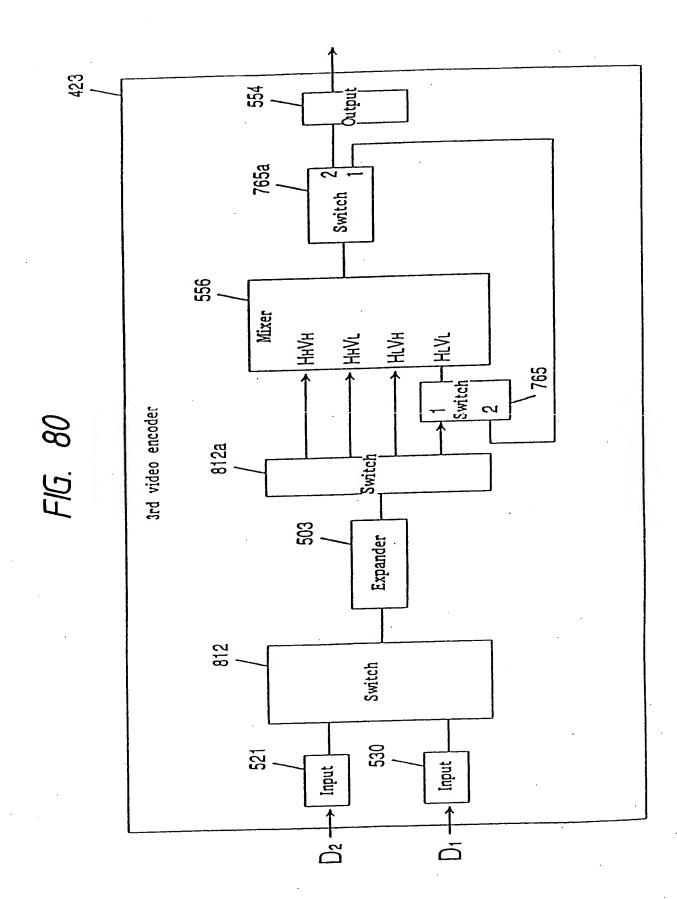
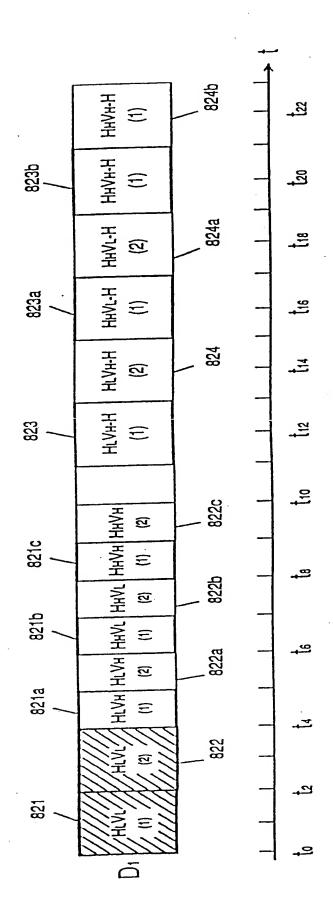


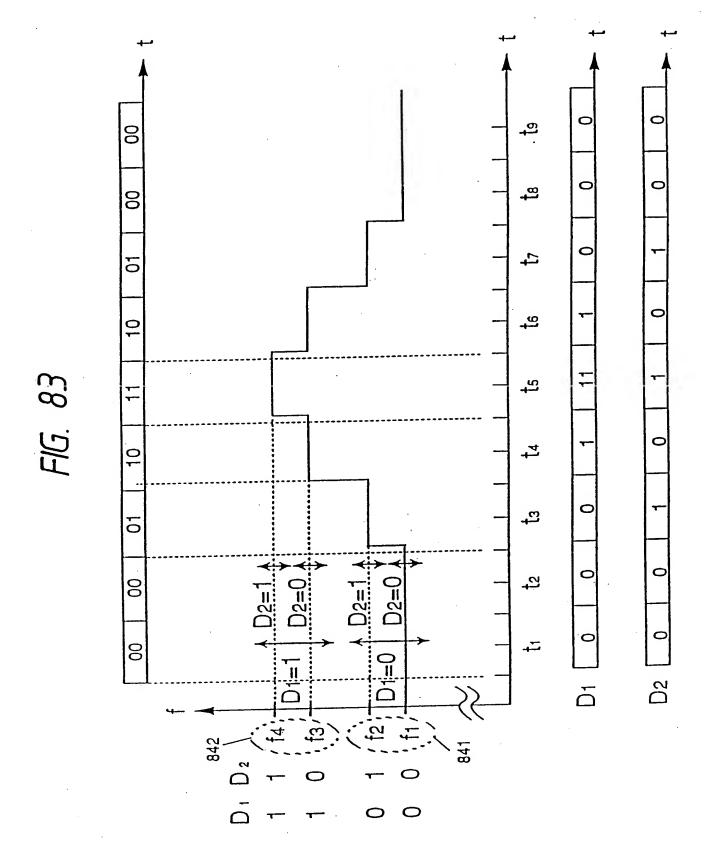
FIG. 77

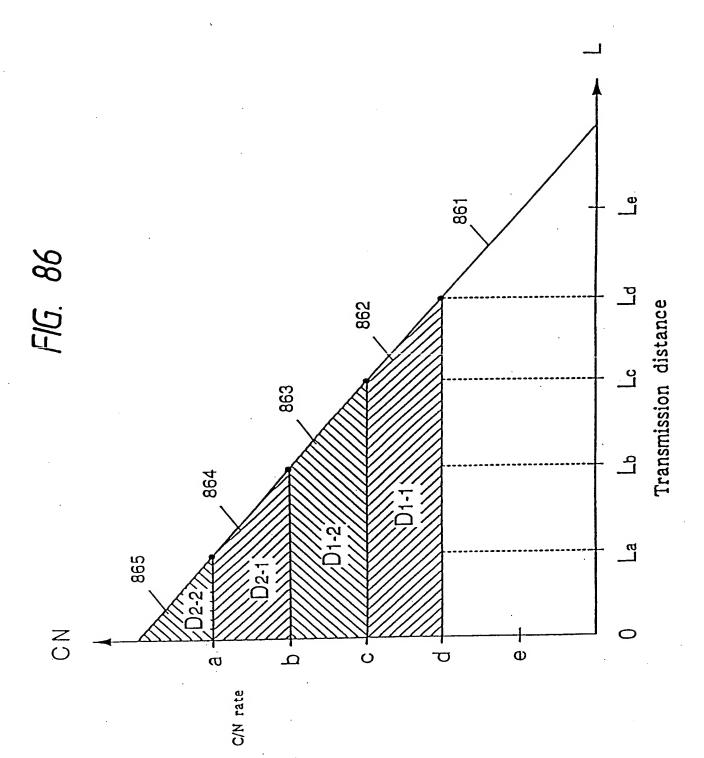


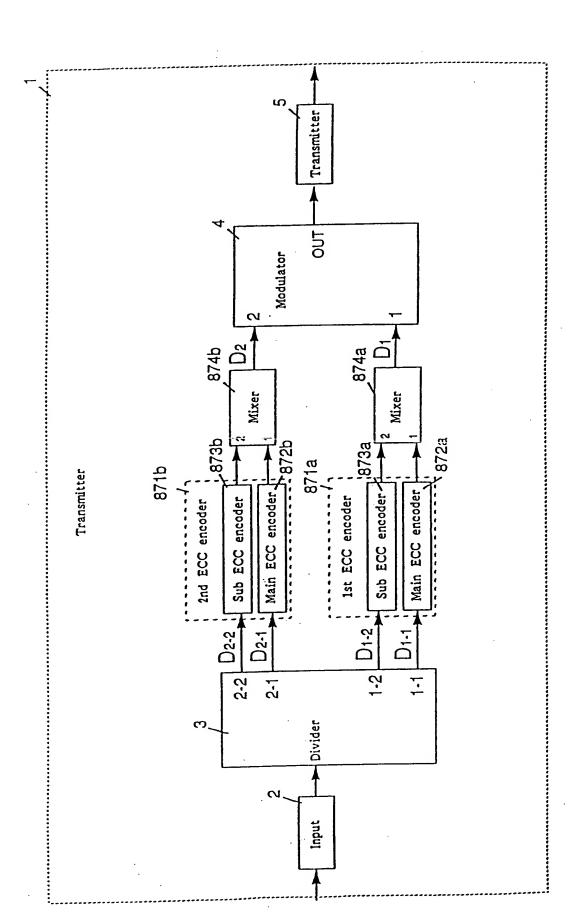
† 823b H-H/H-H **₹** Ŧ 823a 王-六三 **†** 22 Ę 823 H-VH-H <u> 2</u> FIG. 79 **₽ ₽** 上上(1) 821c 4 .9 HHV.(1) 821b _22 **土** 上(1) 821a **-**5 **₽** 827 Õ Õ

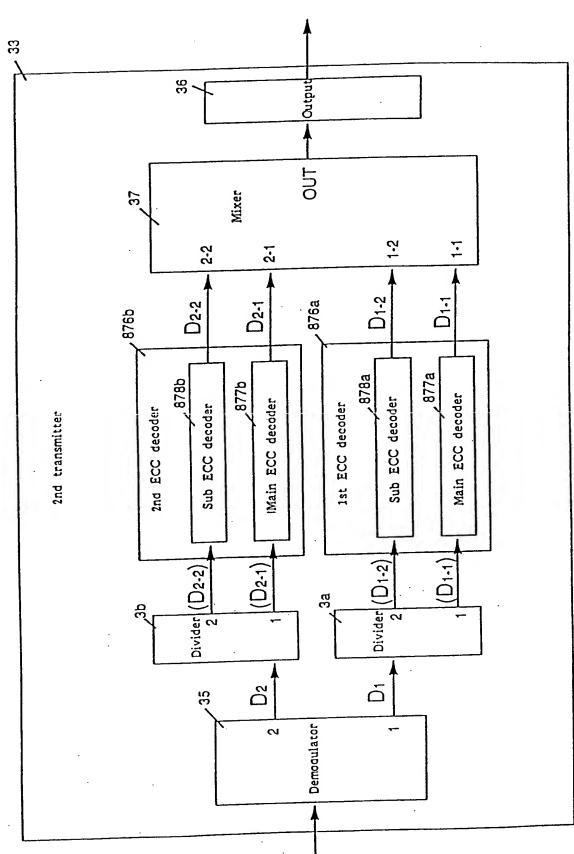


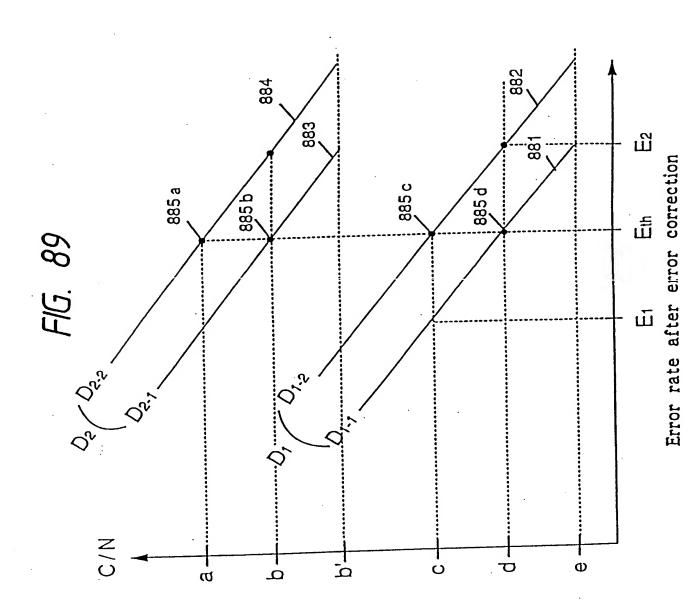


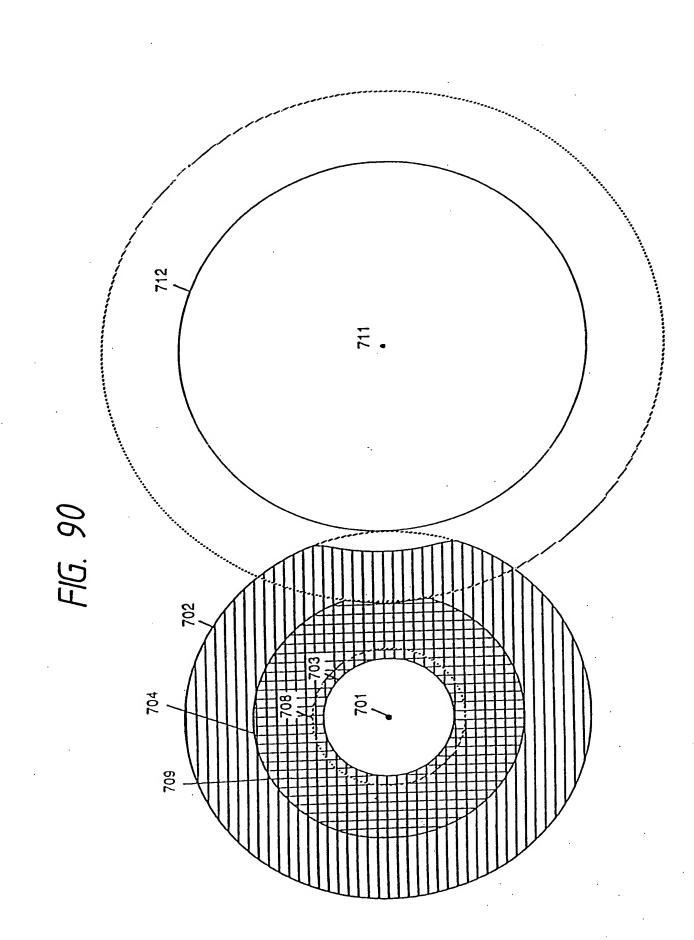


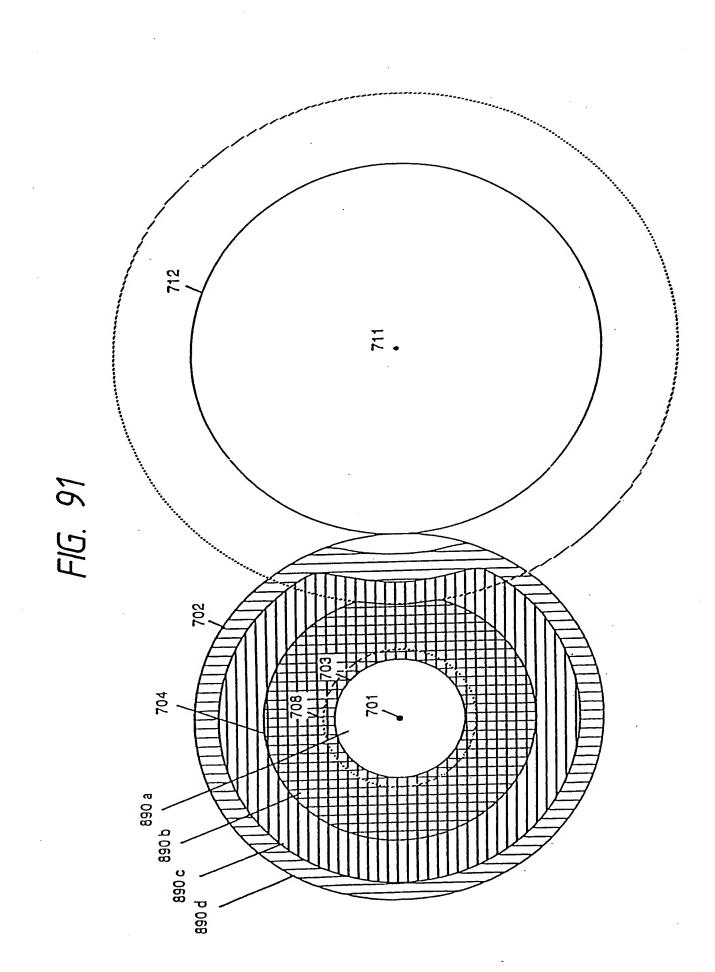


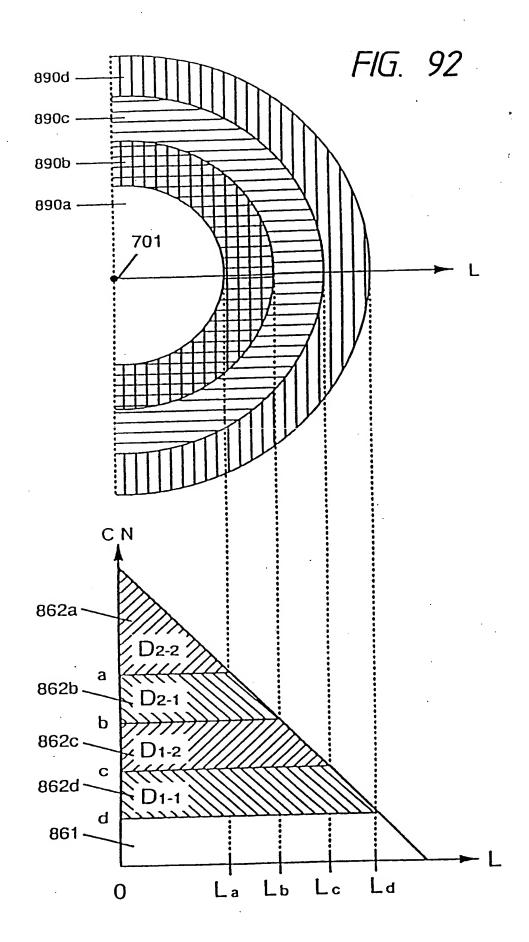


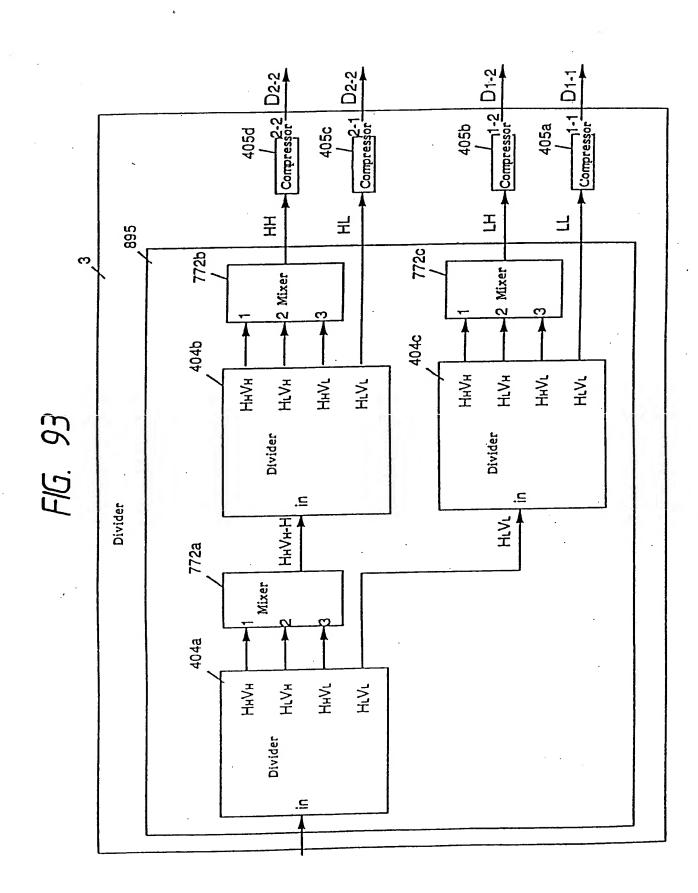




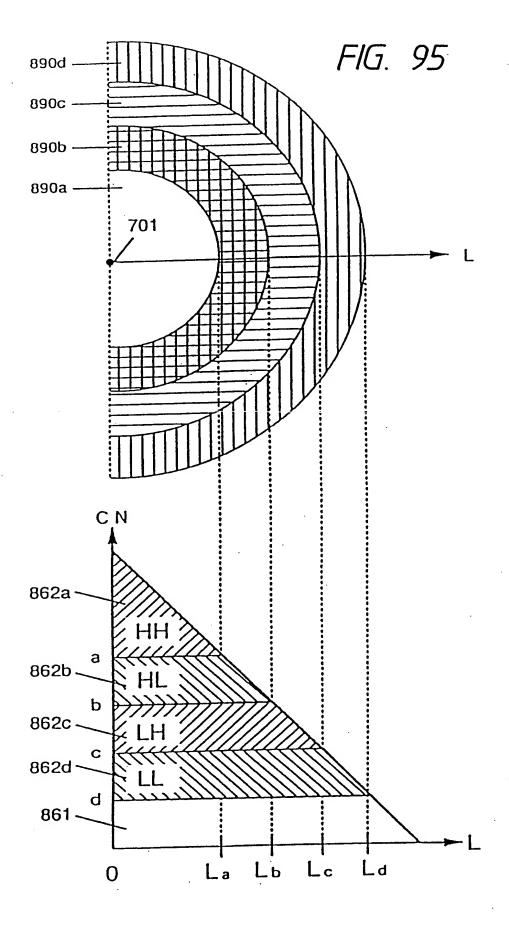


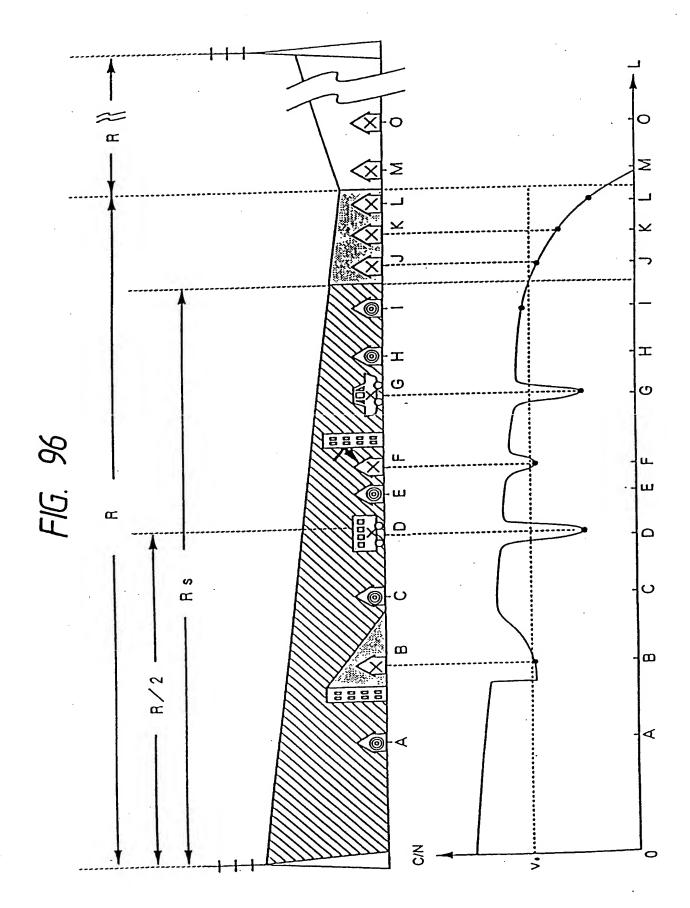


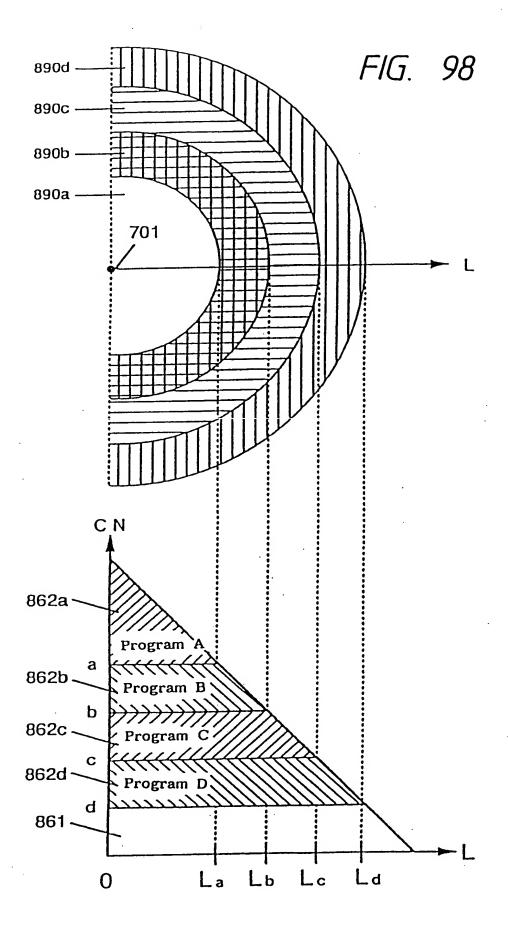




548c out Video mixer ဗ္ဗ HHVL HHVH H_VH H.V. 531c N က Divider 1 Н-н/н-Н Video mixer 548b 548a F1G. 94 Video signal mixer Video mixer HHVH out ort H_VH H.VH 光 Mixer H-V. ₹ K H.V. 531a 531b Divider 1 Divider 1 王 壬 로 523b 5230 523d 02-1







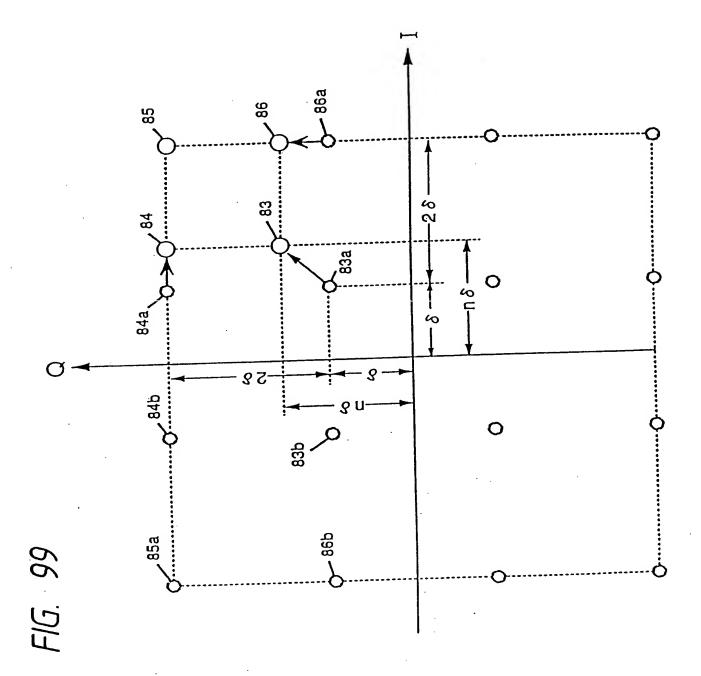
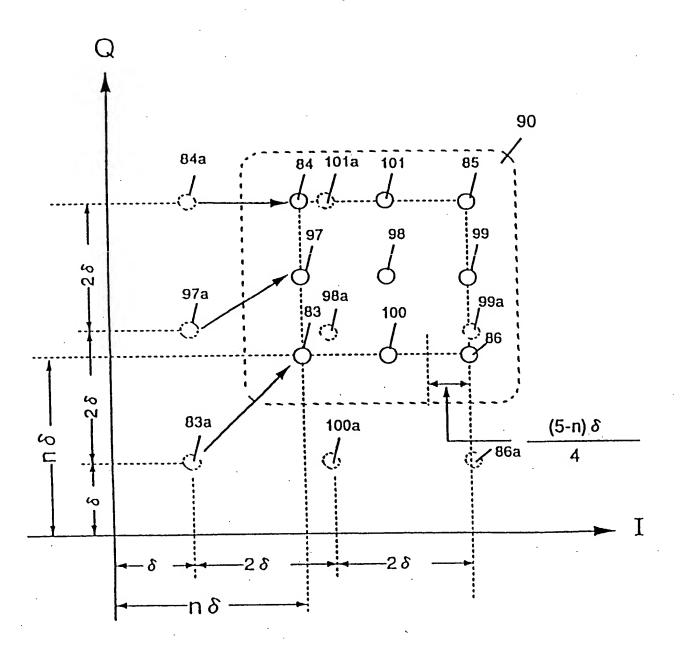
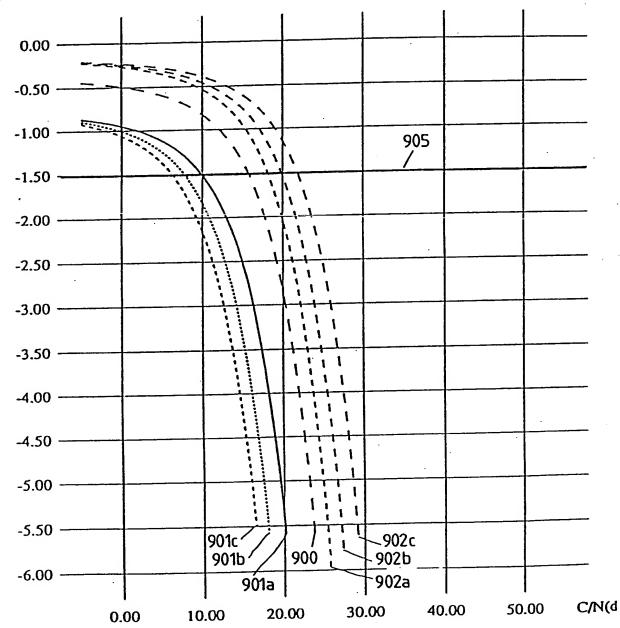


FIG. 100



Pe



Pe

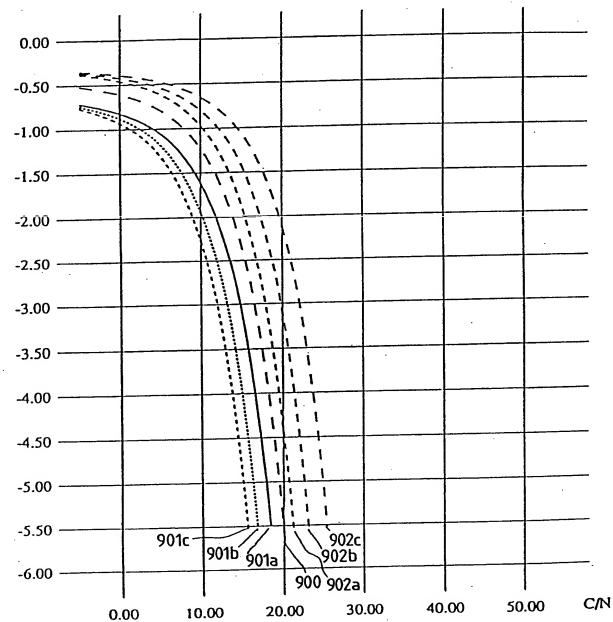


FIG. 103

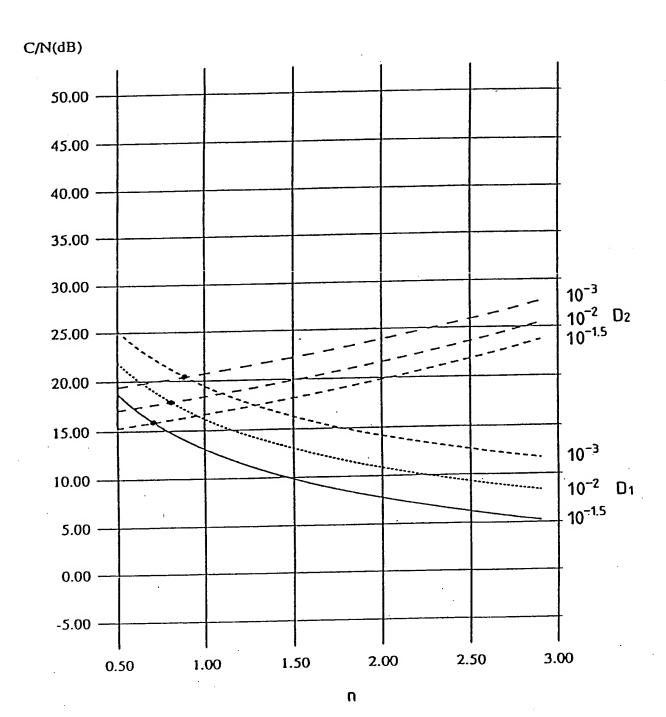


FIG. 104

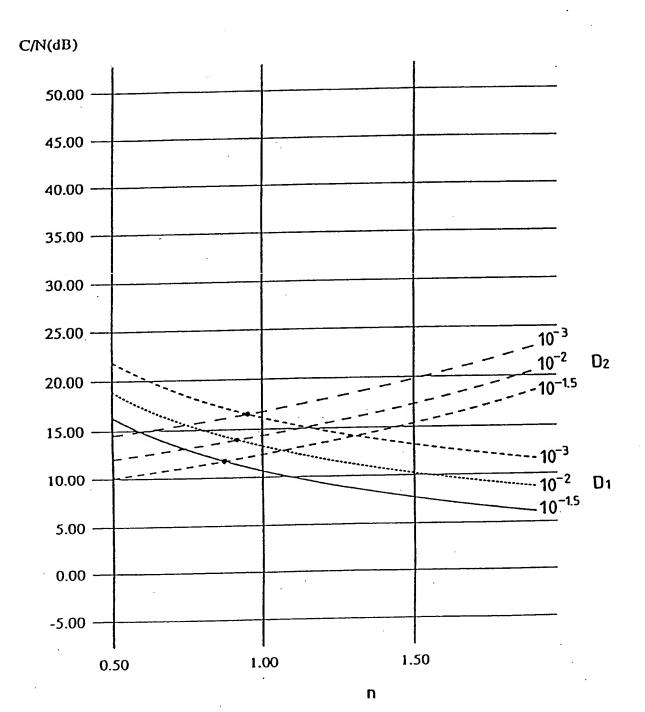
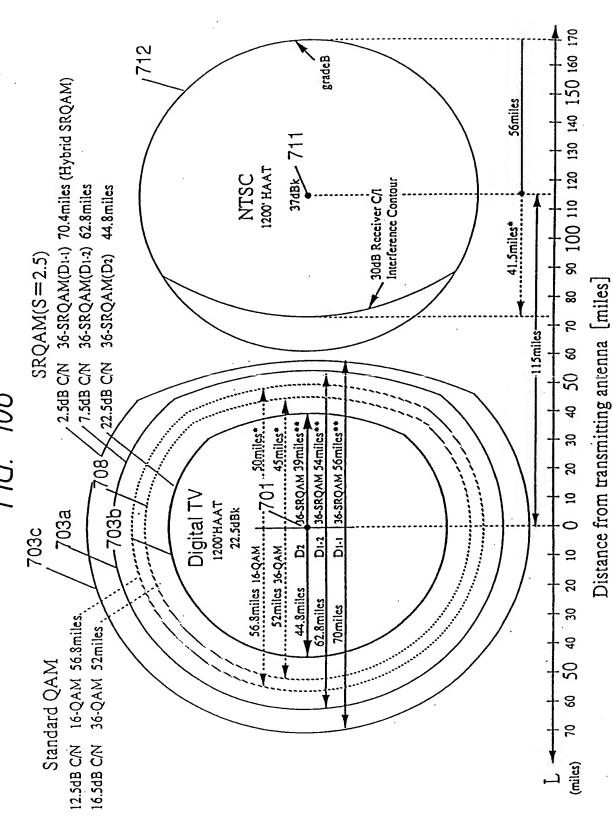
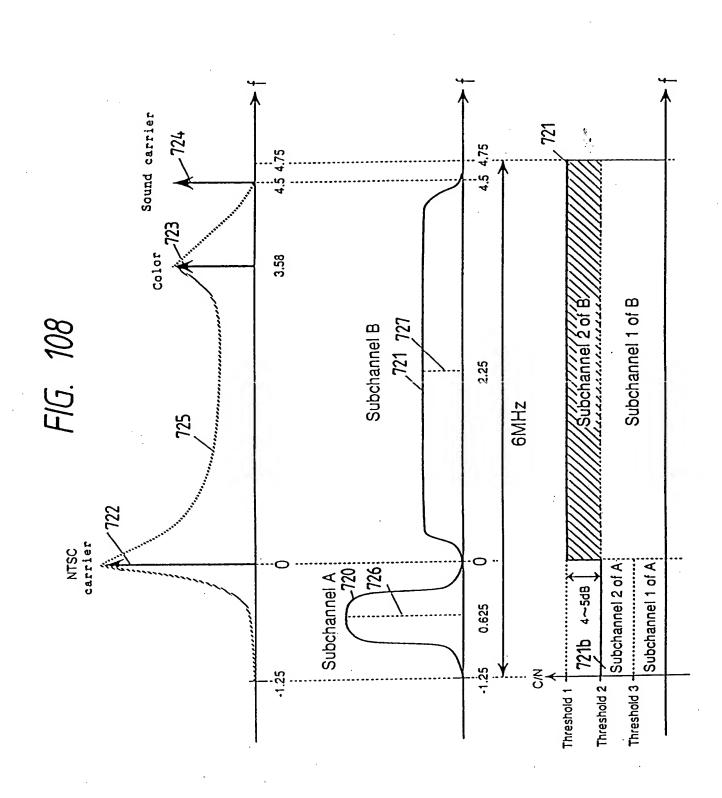


FIG. 106



130 140 150 160 170 712 gradeB 36-SRQAM(D1-1) 65.8miles (Hybrid SRQAM) 56miles 1200' HAAT NTSC 90 100 110 120 37dBk Interference Contour 30dB Receiver C/I 36-SRQAM(D1.2) 59.8miles 36-SRQAM(D2) 47.8miles SRQAM(S1=1.8) 41.5miles* Distance from transmitting antenna [miles] 8 50 60 70 -115miles-FIG. 107 20dB C/N SdB C/N 10dB C/N 수 36SRQAM 56 miles** 6SRQAM 42 miles** 36SRQAM 53 miles** 45 miles* 701 50 miles* 3 20 ,703b Digital TV 1200'HAAT 22.5dBk .03c 56.8 miles 16-QAM ā <u>0</u> 52 miles 36-QAM ద 2 23 47.8miles 59.8 miles റ്റ 55.8 miles 12.5dB C/N 16-QAM 56.8miles. 16.5dB C/N 36-QAM 52miles 50 40 Standard QAM 8 (miles)

* * : approximately calculated



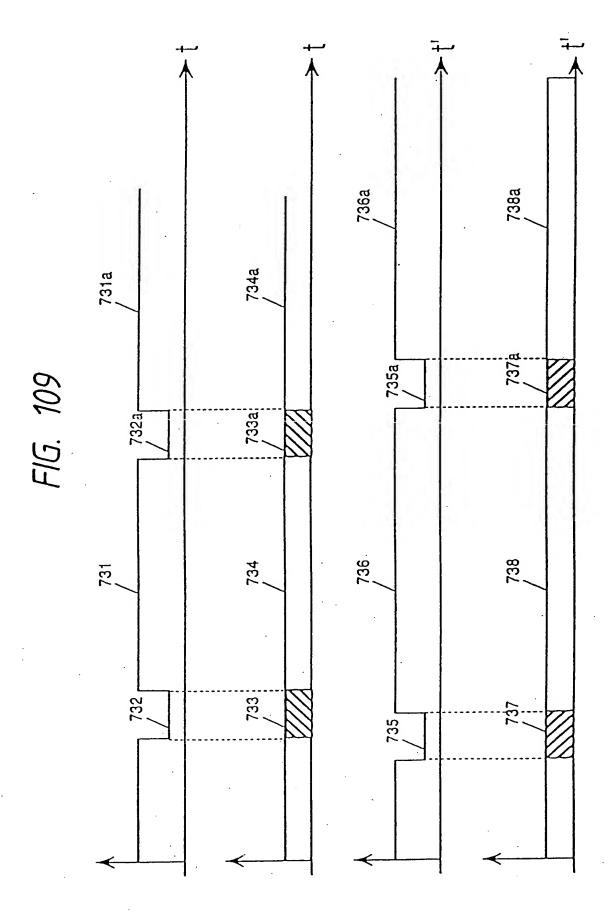
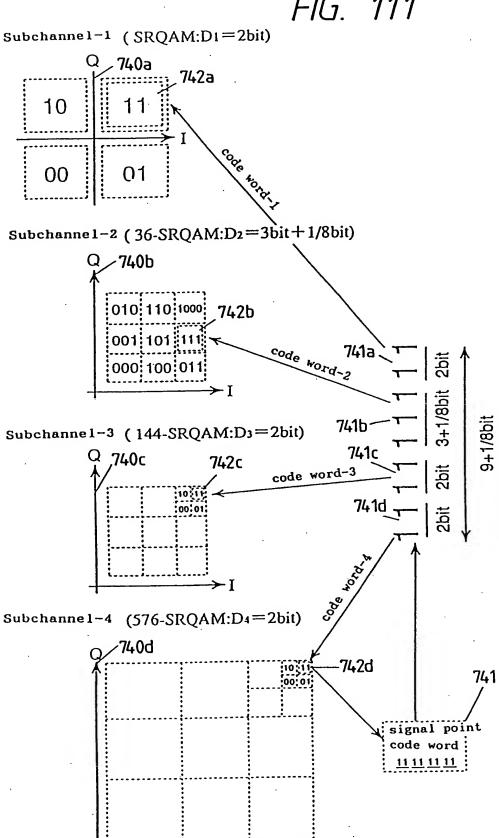
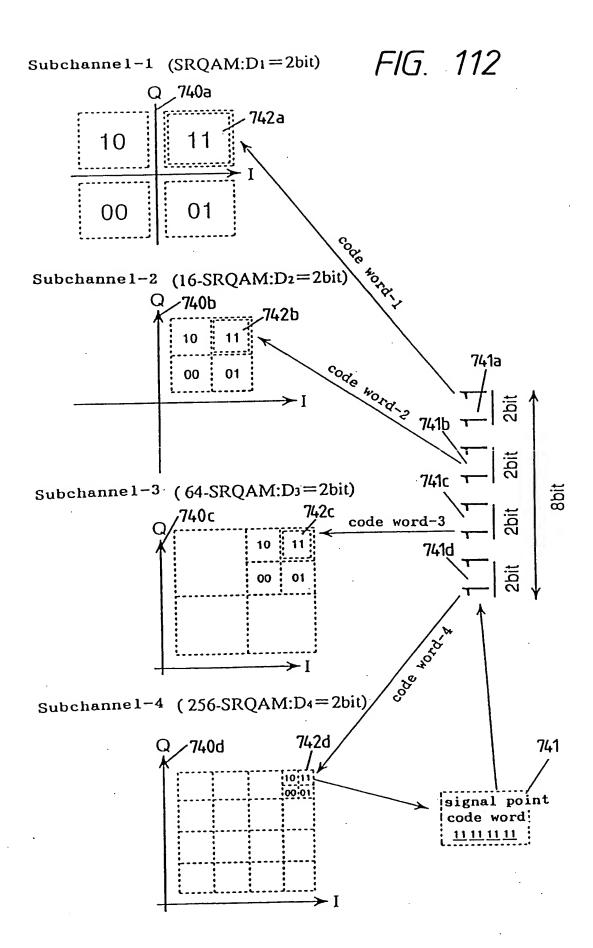


FIG. 111





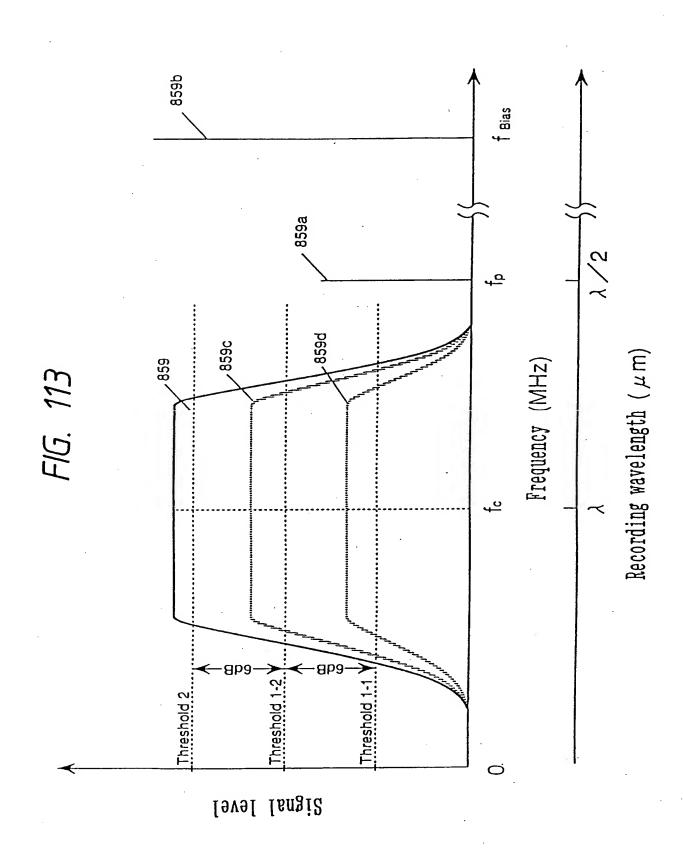
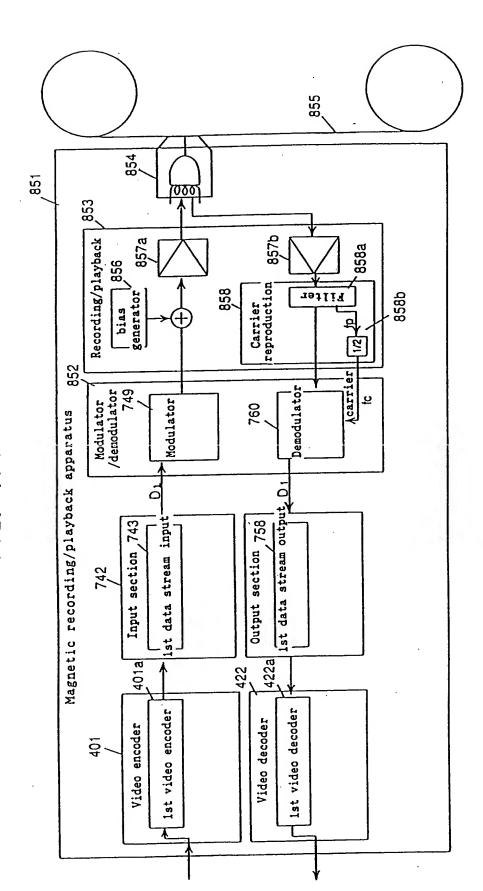
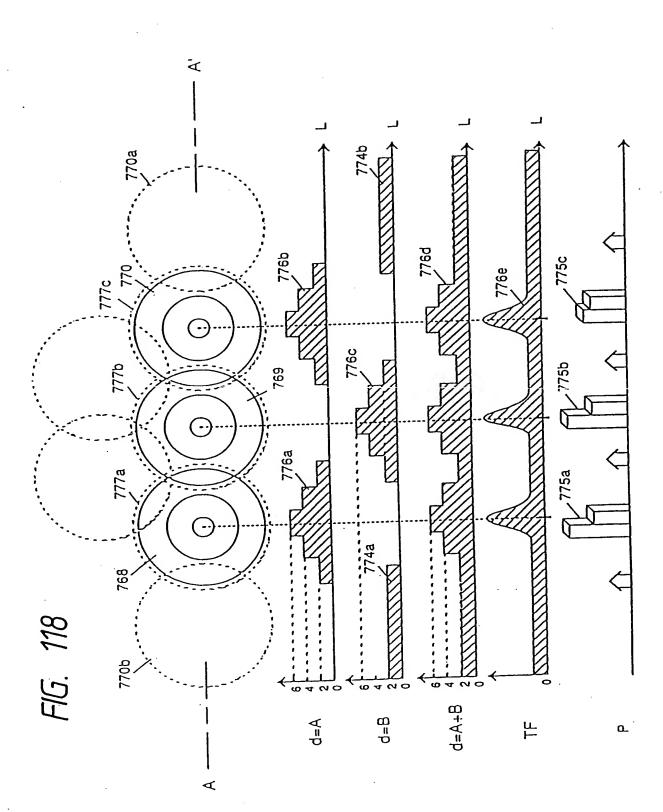


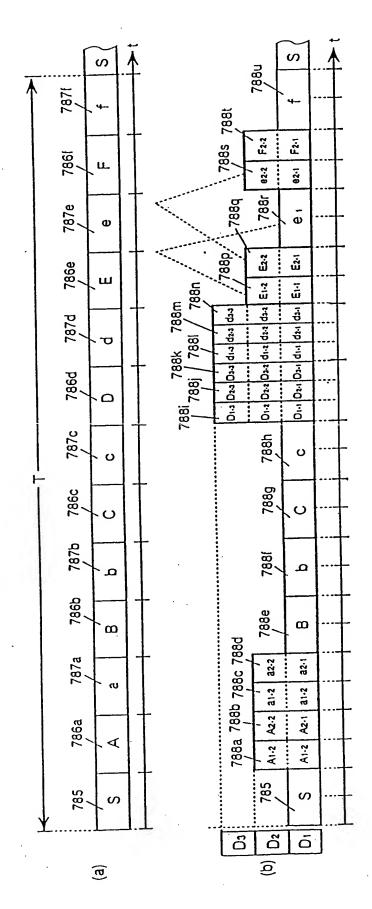
FIG. 114

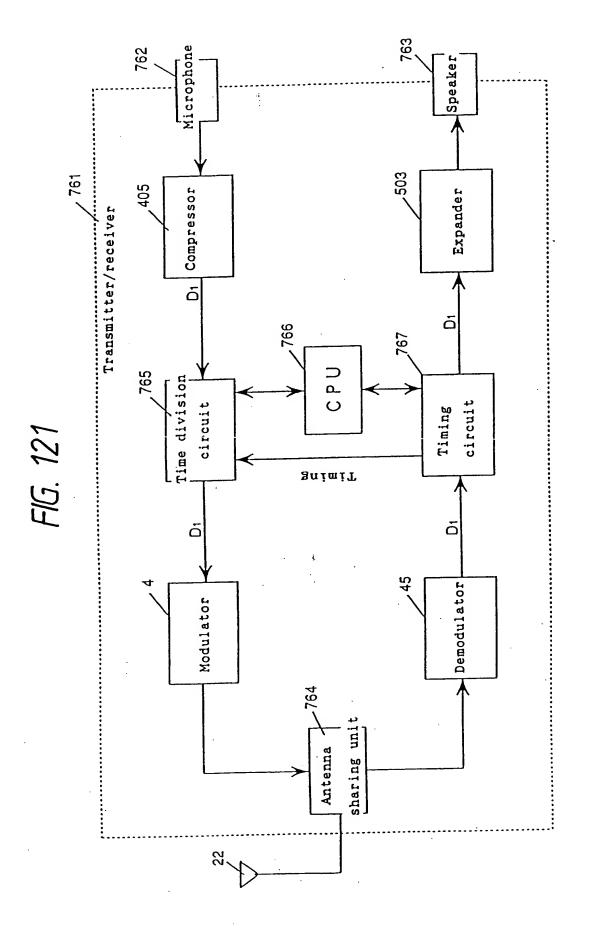


Microphone Speaker 503 D2 Compressor 4,05 Expander 8 õ ដ င္မ 99/ 767 CPTime division 765 Timing circuit BaimiT ន 8 පි õõ Demodulator Modulator 164 sharing unit Antenna

FIG. 115







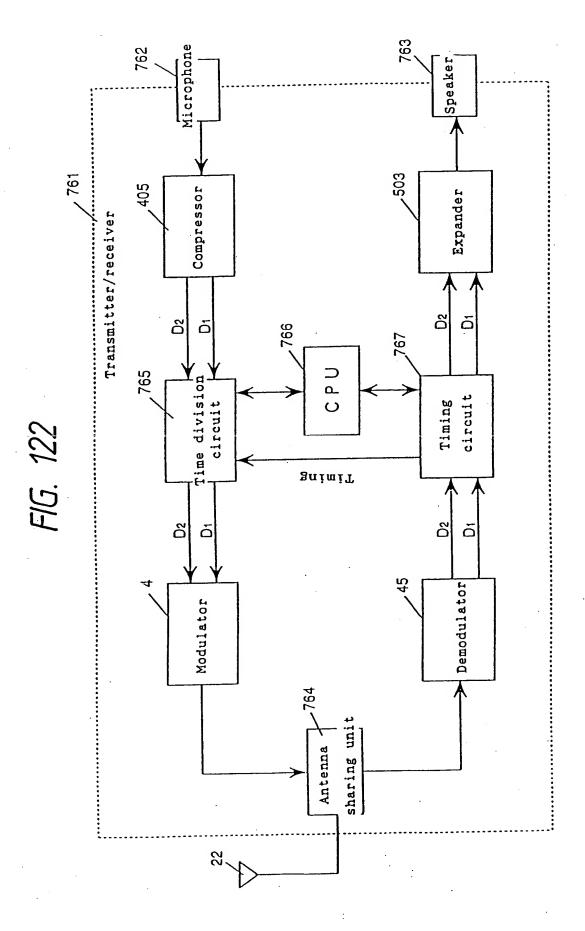
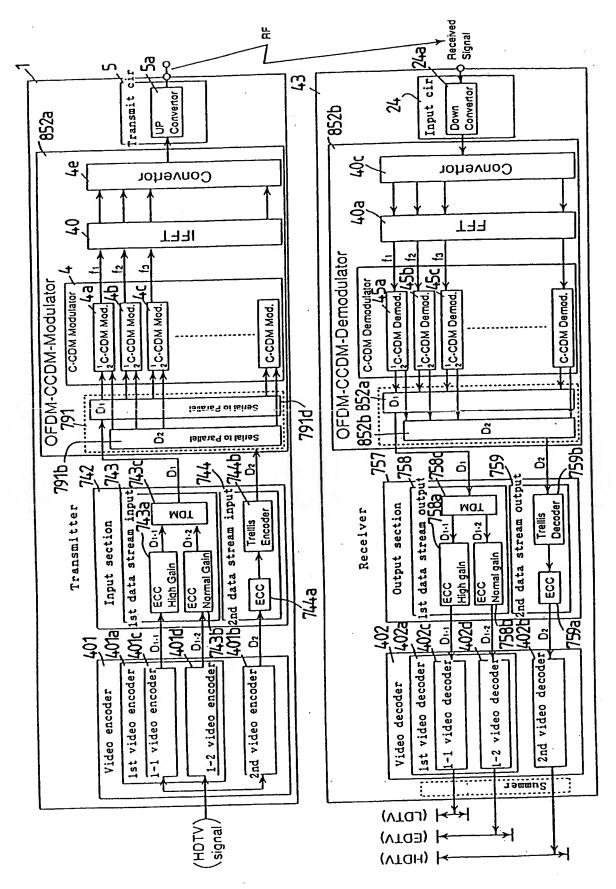
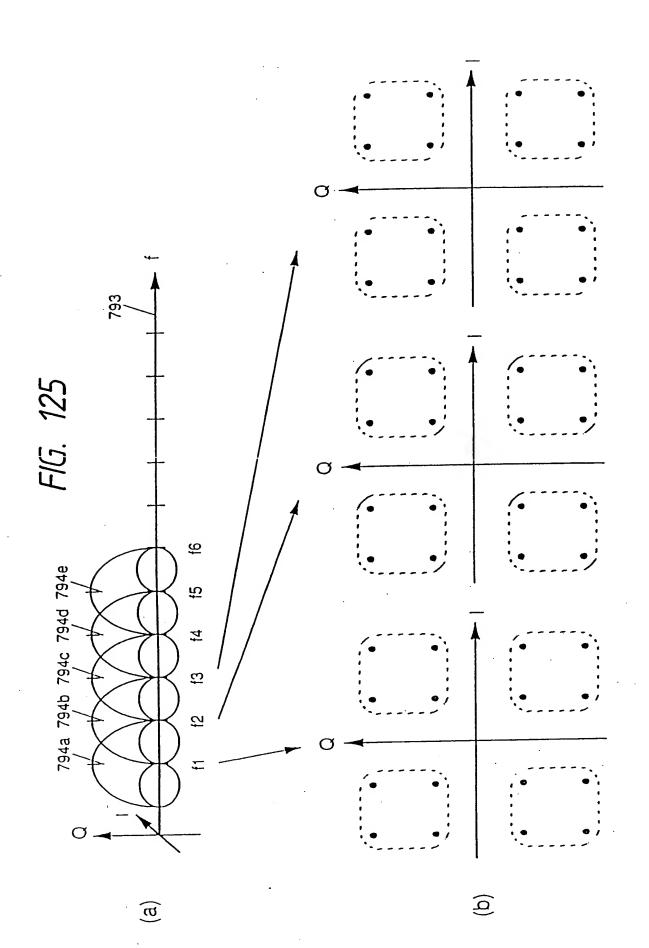
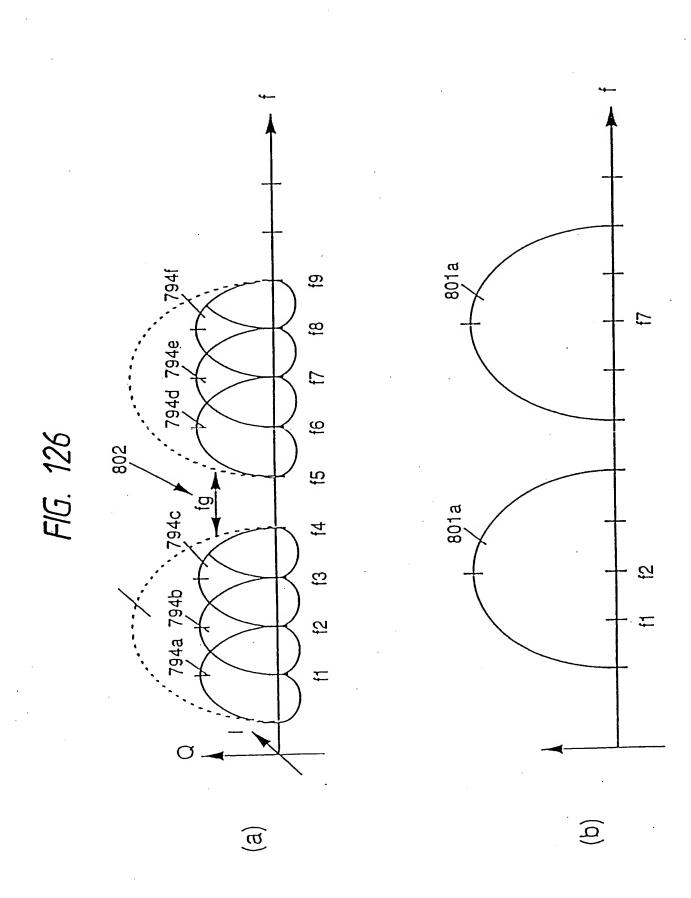


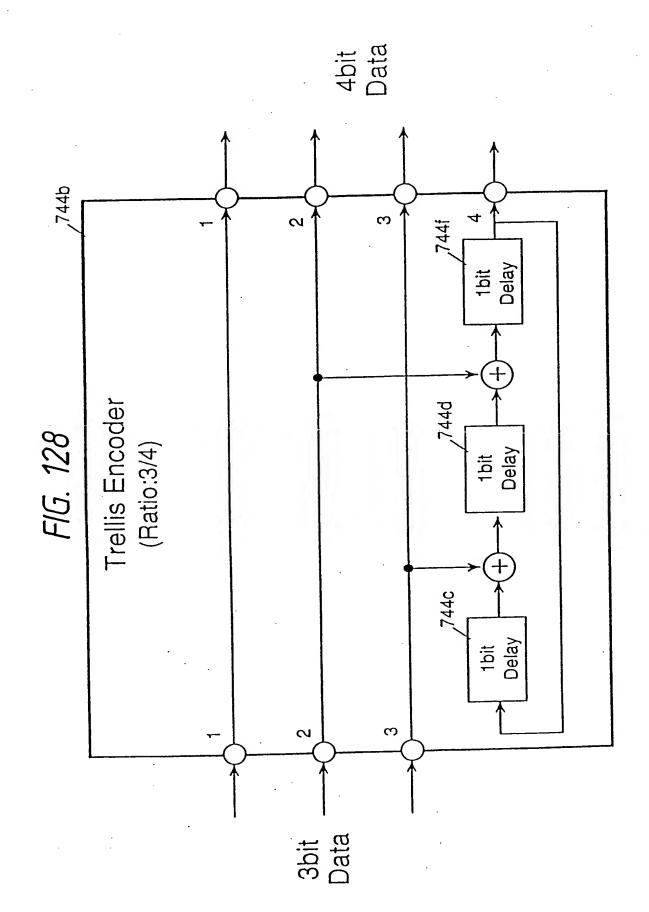
FIG. 123







| Received | Signal 吊 4 UP Convertor Convertor Input cir Down Divider Summer 45b 450 Demodulator C-CDM Demodulator Modulator C-CDM Demod. C-CDM Demod. C-COM Modulator C-CDM Demod. C-CDM Demod C-CDM Mod. C-CDM Mod. C-COM Mod. C-CDM Mod. 791 FIG. 127 Transmitter Parallel to Serial Convertor Receiver Serial to Parallel Convertor 7580 757 ō õ 402b ata stream output 7436 Normal Gain (401b 2nd data stream input 402c ist data stream out MOT MOT Trellis Encoder Output section Input section ٠ أ 401c ist data stream Nomal gain ECC High gain ECC High Gain ည္ထ င္ပင္ 744a ||7584]|| 8/8/ P201 <u> 5/5</u> PLOT 1st video decoder 1-2 video decoder 2nd video decodei 1st video encoder 1-2 video encoder -1 video decoder 2nd video encoder -1 video encoder Video decoder Video encoder (∨TOJ) |<₁>| HDTV) (vTa3) H (VTQH) |



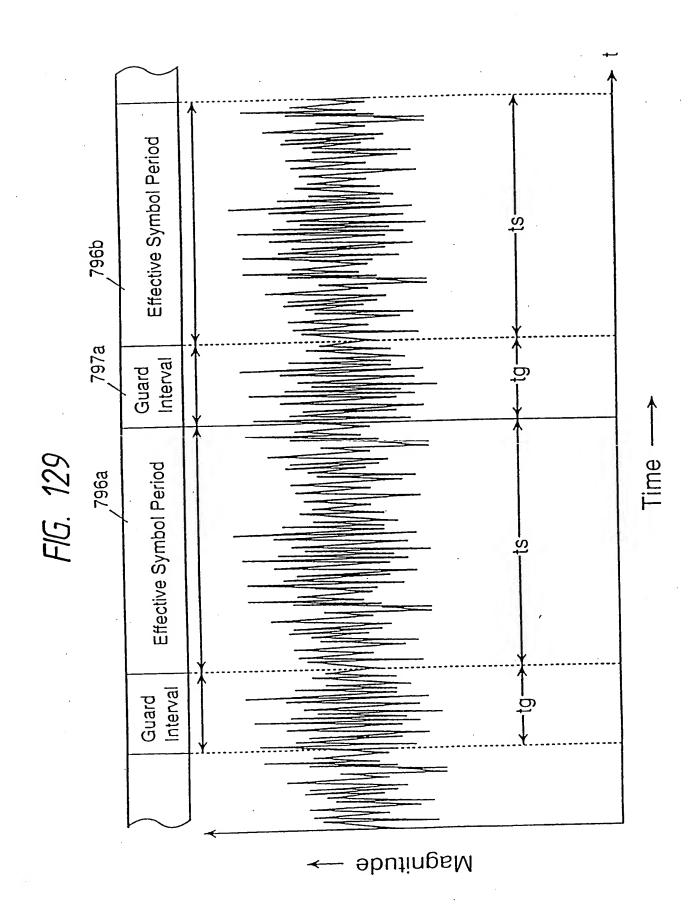


Figure 8 Bit Error Rate Performance Under Single Ghost GHOST DELAY - 2us. D/U - 8dB FIG. 130

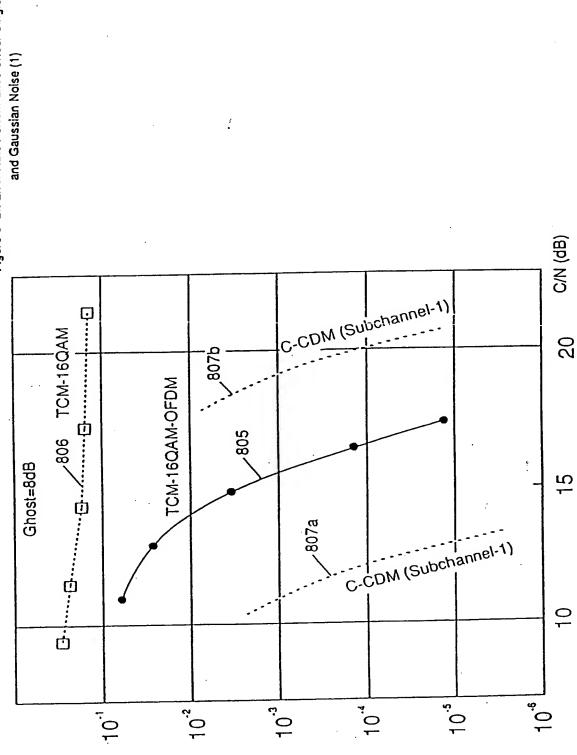
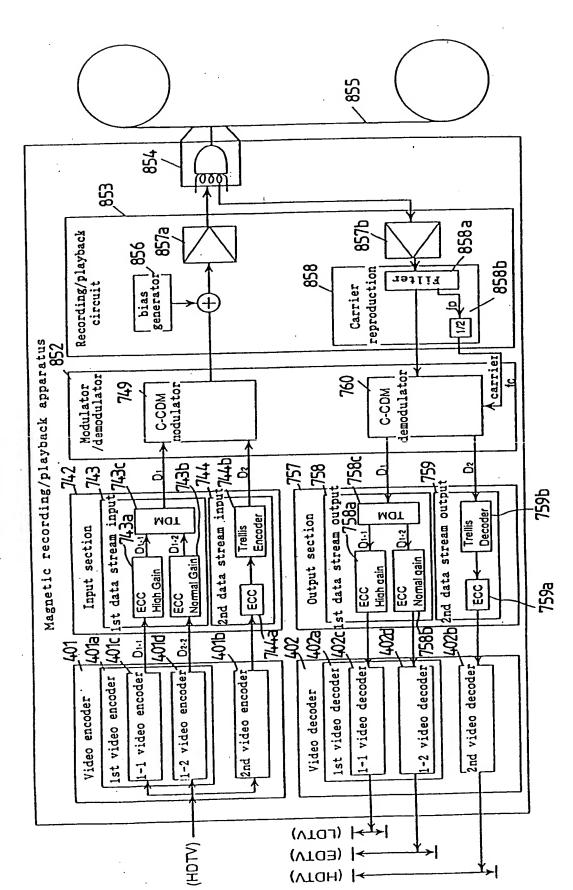
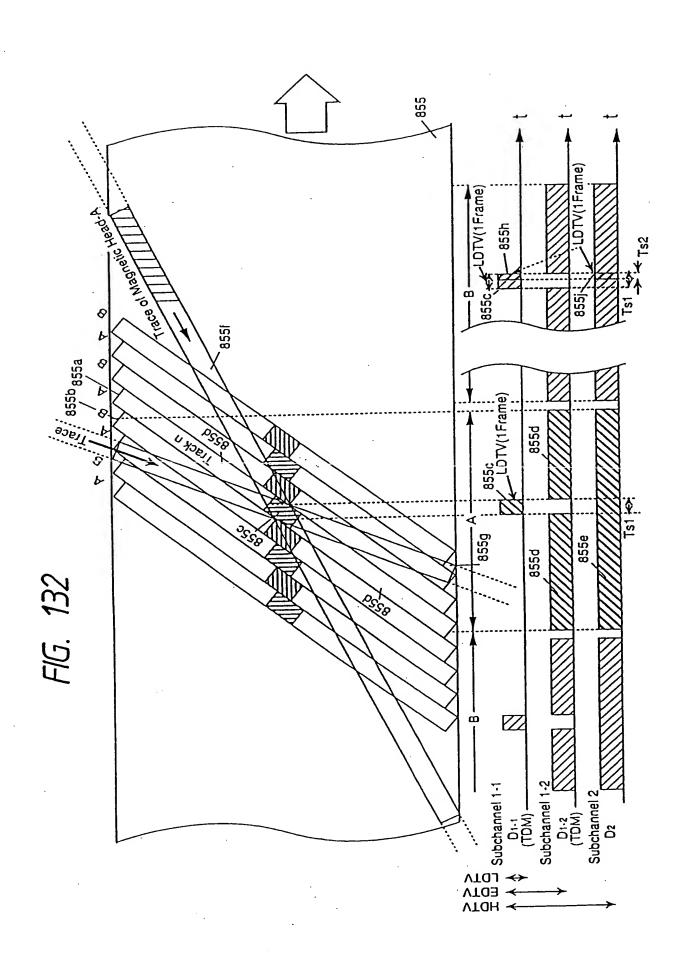
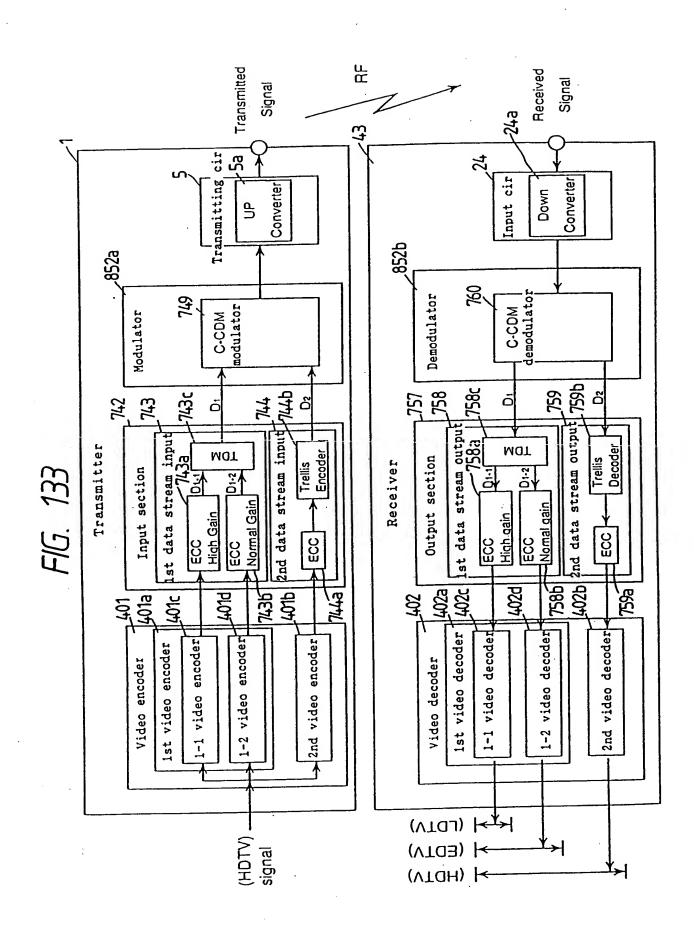


FIG. 131







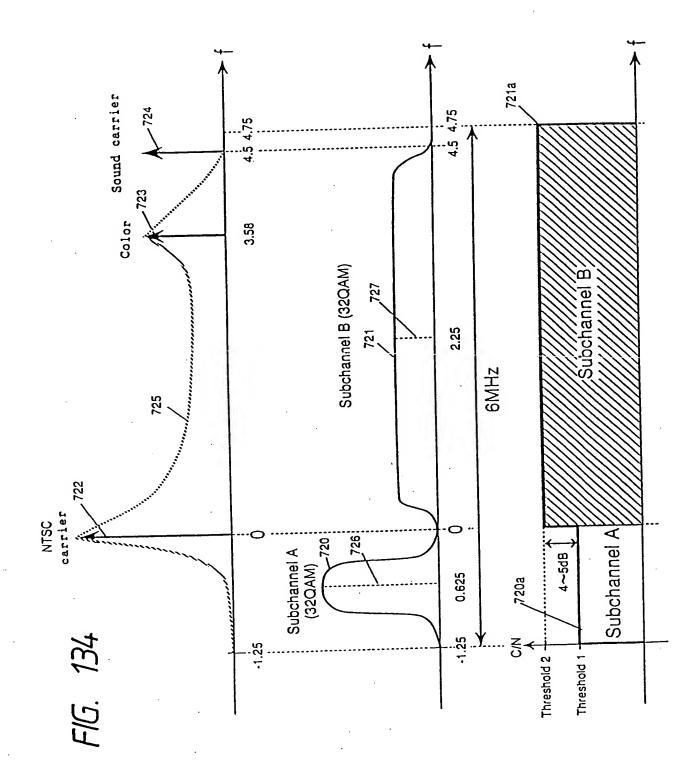
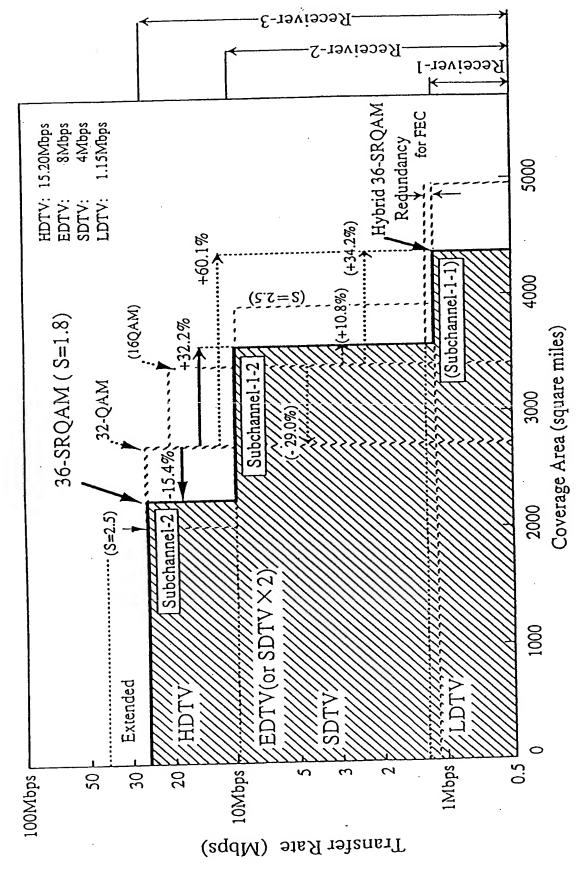
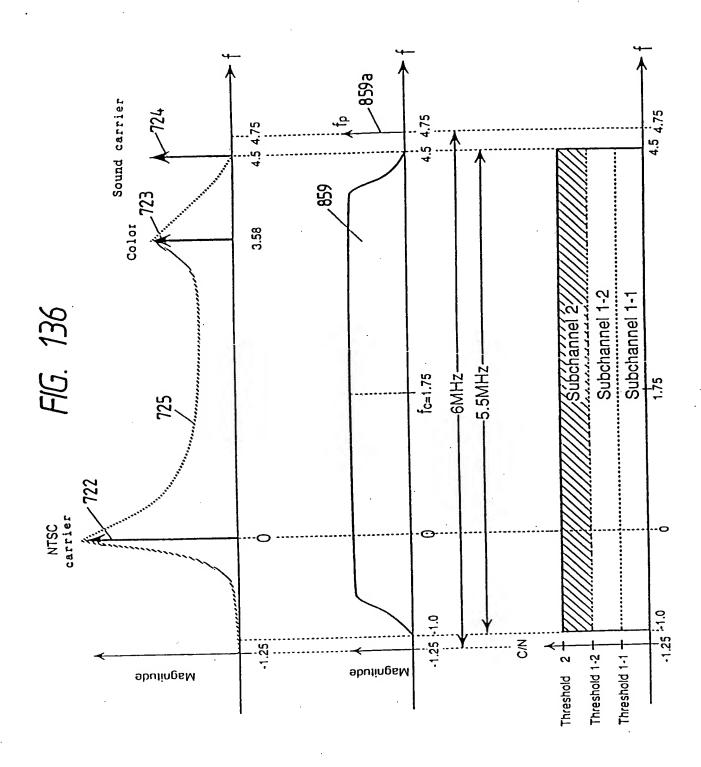
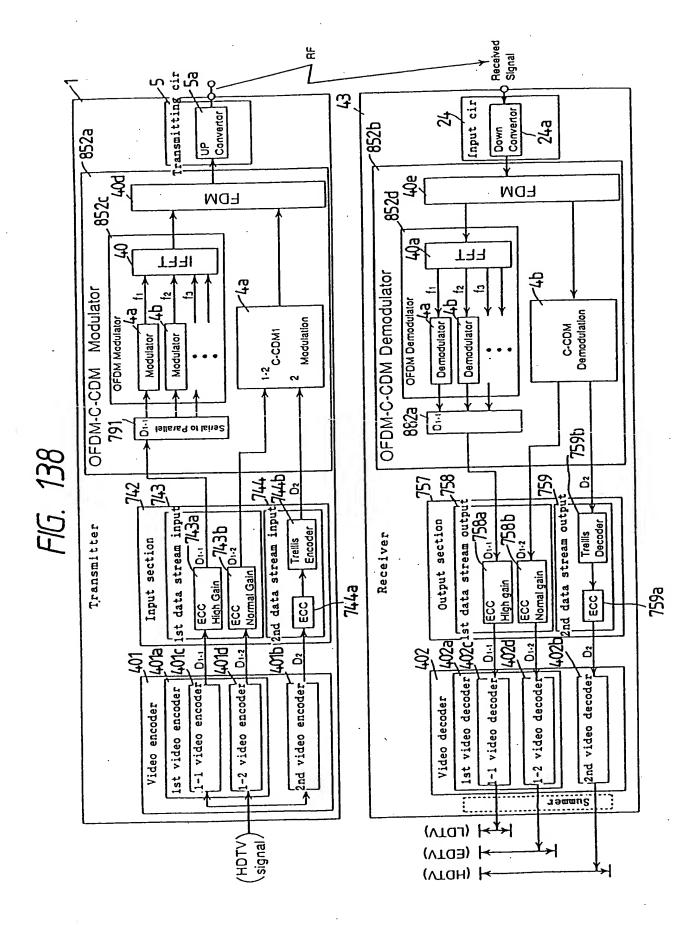


FIG. 135







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